

## Chemical Bingo - Student 1

|     |                                |                                |                               |                                |                                |                                |                                |                   |
|-----|--------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------|
| 1.  | NH <sub>3</sub>                | NaOH                           | Cu                            | Au                             | CuSO <sub>4</sub>              | KOH                            | H <sub>2</sub> O               | HNO <sub>3</sub>  |
| 2.  | CuSO <sub>4</sub>              | H <sub>2</sub> O <sub>2</sub>  | HCl                           | Au                             | H <sub>2</sub> O               | H <sub>2</sub> SO <sub>4</sub> | NaCl                           | Cu                |
| 3.  | NaCl                           | Cu                             | KOH                           | CO <sub>2</sub>                | O <sub>2</sub>                 | CuSO <sub>4</sub>              | N <sub>2</sub>                 | H <sub>2</sub>    |
| 4.  | HCl                            | KOH                            | K                             | NaOH                           | O <sub>2</sub>                 | CO <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub>  | CH <sub>4</sub>   |
| 5.  | NaCl                           | CO <sub>2</sub>                | O <sub>2</sub>                | Na                             | HCl                            | CaCO <sub>3</sub>              | H <sub>2</sub> O               | Au                |
| 6.  | Cu                             | CaCO <sub>3</sub>              | H <sub>2</sub>                | CuSO <sub>4</sub>              | H <sub>2</sub> O <sub>2</sub>  | O <sub>2</sub>                 | NaCl                           | NH <sub>3</sub>   |
| 7.  | CaCO <sub>3</sub>              | H <sub>2</sub> SO <sub>4</sub> | O <sub>2</sub>                | NH <sub>3</sub>                | K                              | H <sub>2</sub> O               | CuSO <sub>4</sub>              | KOH               |
| 8.  | NaOH                           | CO <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub> | NaCl                           | O <sub>2</sub>                 | CaCO <sub>3</sub>              | Au                             | HNO <sub>3</sub>  |
| 9.  | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 | HCl                           | KOH                            | H <sub>2</sub> O               | NH <sub>3</sub>                | HNO <sub>3</sub>               | N <sub>2</sub>    |
| 10. | H <sub>2</sub> O               | CH <sub>4</sub>                | HNO <sub>3</sub>              | H <sub>2</sub>                 | K                              | NaOH                           | CuSO <sub>4</sub>              | O <sub>2</sub>    |
| 11. | O <sub>2</sub>                 | HCl                            | Na                            | Au                             | Cu                             | CO <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O  |
| 12. | HNO <sub>3</sub>               | KOH                            | Cu                            | CH <sub>4</sub>                | CuSO <sub>4</sub>              | CO <sub>2</sub>                | H <sub>2</sub>                 | O <sub>2</sub>    |
| 13. | NaCl                           | O <sub>2</sub>                 | KOH                           | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O               | K                              | Au                             | H <sub>2</sub>    |
| 14. | HCl                            | H <sub>2</sub> O <sub>2</sub>  | CuSO <sub>4</sub>             | KOH                            | H <sub>2</sub> SO <sub>4</sub> | K                              | Cu                             | CaCO <sub>3</sub> |
| 15. | K                              | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>               | HNO <sub>3</sub>               | CuSO <sub>4</sub>              | N <sub>2</sub>                 | H <sub>2</sub>                 | KOH               |
| 16. | H <sub>2</sub> O <sub>2</sub>  | Cu                             | K                             | HNO <sub>3</sub>               | CaCO <sub>3</sub>              | CO <sub>2</sub>                | O <sub>2</sub>                 | NH <sub>3</sub>   |
| 17. | CO <sub>2</sub>                | KOH                            | H <sub>2</sub>                | Na                             | CH <sub>4</sub>                | N <sub>2</sub>                 | O <sub>2</sub>                 | CuSO <sub>4</sub> |
| 18. | NaCl                           | CuSO <sub>4</sub>              | CaCO <sub>3</sub>             | KOH                            | Au                             | Cu                             | K                              | H <sub>2</sub>    |
| 19. | CaCO <sub>3</sub>              | H <sub>2</sub> O <sub>2</sub>  | NH <sub>3</sub>               | NaCl                           | KOH                            | O <sub>2</sub>                 | H <sub>2</sub>                 | CO <sub>2</sub>   |
| 20. | Na                             | NaCl                           | CaCO <sub>3</sub>             | HCl                            | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O               | Cu                             | CH <sub>4</sub>   |

## Chemical Bingo - Student 2

|     |                                |                   |                                |                   |                                |                                |                                |                                |
|-----|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 1.  | H <sub>2</sub>                 | O <sub>2</sub>    | CuSO <sub>4</sub>              | N <sub>2</sub>    | NaOH                           | CH <sub>4</sub>                | HNO <sub>3</sub>               | H <sub>2</sub> SO <sub>4</sub> |
| 2.  | NH <sub>3</sub>                | CaCO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH              | Au                             | HNO <sub>3</sub>               | H <sub>2</sub> O               | CO <sub>2</sub>                |
| 3.  | Au                             | HNO <sub>3</sub>  | Na                             | H <sub>2</sub> O  | K                              | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | CaCO <sub>3</sub>              |
| 4.  | CaCO <sub>3</sub>              | CH <sub>4</sub>   | H <sub>2</sub> O               | HNO <sub>3</sub>  | NaOH                           | Cu                             | CuSO <sub>4</sub>              | NH <sub>3</sub>                |
| 5.  | HNO <sub>3</sub>               | NaOH              | NH <sub>3</sub>                | K                 | H <sub>2</sub> O <sub>2</sub>  | CH <sub>4</sub>                | H <sub>2</sub>                 | H <sub>2</sub> O               |
| 6.  | CaCO <sub>3</sub>              | O <sub>2</sub>    | HCl                            | Cu                | NaOH                           | H <sub>2</sub>                 | Na                             | CH <sub>4</sub>                |
| 7.  | HNO <sub>3</sub>               | CaCO <sub>3</sub> | N <sub>2</sub>                 | K                 | CO <sub>2</sub>                | O <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub>  | NaOH                           |
| 8.  | N <sub>2</sub>                 | NH <sub>3</sub>   | NaOH                           | O <sub>2</sub>    | H <sub>2</sub> O <sub>2</sub>  | CH <sub>4</sub>                | NaCl                           | CuSO <sub>4</sub>              |
| 9.  | HCl                            | NaOH              | CO <sub>2</sub>                | CH <sub>4</sub>   | CaCO <sub>3</sub>              | NH <sub>3</sub>                | N <sub>2</sub>                 | Au                             |
| 10. | NaCl                           | CO <sub>2</sub>   | CuSO <sub>4</sub>              | Na                | K                              | CaCO <sub>3</sub>              | NaOH                           | N <sub>2</sub>                 |
| 11. | H <sub>2</sub> SO <sub>4</sub> | CH <sub>4</sub>   | O <sub>2</sub>                 | H <sub>2</sub> O  | HCl                            | KOH                            | Au                             | NaCl                           |
| 12. | CH <sub>4</sub>                | KOH               | NaOH                           | NH <sub>3</sub>   | NaCl                           | HCl                            | Cu                             | CO <sub>2</sub>                |
| 13. | H <sub>2</sub> O               | CH <sub>4</sub>   | NaOH                           | NH <sub>3</sub>   | Au                             | H <sub>2</sub> O <sub>2</sub>  | CO <sub>2</sub>                | HCl                            |
| 14. | HCl                            | N <sub>2</sub>    | H <sub>2</sub>                 | CaCO <sub>3</sub> | NaCl                           | H <sub>2</sub> SO <sub>4</sub> | Cu                             | Au                             |
| 15. | Na                             | Au                | CH <sub>4</sub>                | CuSO <sub>4</sub> | K                              | O <sub>2</sub>                 | HCl                            | CaCO <sub>3</sub>              |
| 16. | K                              | H <sub>2</sub> O  | HCl                            | Au                | CaCO <sub>3</sub>              | O <sub>2</sub>                 | KOH                            | CO <sub>2</sub>                |
| 17. | CaCO <sub>3</sub>              | Na                | Au                             | HNO <sub>3</sub>  | NaCl                           | CH <sub>4</sub>                | Cu                             | H <sub>2</sub> O               |
| 18. | H <sub>2</sub> SO <sub>4</sub> | HCl               | Au                             | NaCl              | N <sub>2</sub>                 | KOH                            | CH <sub>4</sub>                | NaOH                           |
| 19. | Au                             | K                 | H <sub>2</sub> O               | N <sub>2</sub>    | NaCl                           | NH <sub>3</sub>                | HNO <sub>3</sub>               | O <sub>2</sub>                 |
| 20. | NH <sub>3</sub>                | H <sub>2</sub>    | H <sub>2</sub> O               | Au                | H <sub>2</sub> SO <sub>4</sub> | HCl                            | KOH                            | CH <sub>4</sub>                |

### Chemical Bingo - Student 3

|                                  |                                |                   |                                |                               |                   |                                |                                |
|----------------------------------|--------------------------------|-------------------|--------------------------------|-------------------------------|-------------------|--------------------------------|--------------------------------|
| 1. CuSO <sub>4</sub>             | NaCl                           | O <sub>2</sub>    | HNO <sub>3</sub>               | CaCO <sub>3</sub>             | N <sub>2</sub>    | H <sub>2</sub> O               | NH <sub>3</sub>                |
| 2. CH <sub>4</sub>               | HCl                            | Cu                | CuSO <sub>4</sub>              | O <sub>2</sub>                | Au                | N <sub>2</sub>                 | Na                             |
| 3. KOH                           | H <sub>2</sub> O <sub>2</sub>  | NaOH              | CO <sub>2</sub>                | NaCl                          | HNO <sub>3</sub>  | HCl                            | Au                             |
| 4. Na                            | H <sub>2</sub> SO <sub>4</sub> | Cu                | N <sub>2</sub>                 | H <sub>2</sub>                | NaOH              | CuSO <sub>4</sub>              | CH <sub>4</sub>                |
| 5. O <sub>2</sub>                | K                              | CaCO <sub>3</sub> | H <sub>2</sub>                 | N <sub>2</sub>                | CH <sub>4</sub>   | Na                             | CuSO <sub>4</sub>              |
| 6. CuSO <sub>4</sub>             | O <sub>2</sub>                 | CaCO <sub>3</sub> | KOH                            | NaCl                          | Au                | HNO <sub>3</sub>               | Na                             |
| 7. H <sub>2</sub> O <sub>2</sub> | Au                             | NaOH              | NH <sub>3</sub>                | N <sub>2</sub>                | CuSO <sub>4</sub> | O <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> |
| 8. H <sub>2</sub> O              | CH <sub>4</sub>                | HCl               | NaOH                           | NaCl                          | N <sub>2</sub>    | K                              | NH <sub>3</sub>                |
| 9. K                             | H <sub>2</sub>                 | CaCO <sub>3</sub> | H <sub>2</sub> O <sub>2</sub>  | CO <sub>2</sub>               | Au                | HCl                            | H <sub>2</sub> SO <sub>4</sub> |
| 10. Au                           | CaCO <sub>3</sub>              | NaCl              | Cu                             | HNO <sub>3</sub>              | O <sub>2</sub>    | NH <sub>3</sub>                | K                              |
| 11. Na                           | O <sub>2</sub>                 | HCl               | CuSO <sub>4</sub>              | H <sub>2</sub> O              | HNO <sub>3</sub>  | K                              | NaCl                           |
| 12. NH <sub>3</sub>              | HCl                            | CuSO <sub>4</sub> | H <sub>2</sub> SO <sub>4</sub> | CH <sub>4</sub>               | NaOH              | CO <sub>2</sub>                | HNO <sub>3</sub>               |
| 13. O <sub>2</sub>               | Cu                             | N <sub>2</sub>    | NaOH                           | K                             | CH <sub>4</sub>   | CaCO <sub>3</sub>              | Au                             |
| 14. H <sub>2</sub> O             | NH <sub>3</sub>                | Au                | HCl                            | Na                            | KOH               | K                              | O <sub>2</sub>                 |
| 15. NH <sub>3</sub>              | NaCl                           | NaOH              | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>               | HNO <sub>3</sub>  | K                              | CH <sub>4</sub>                |
| 16. CO <sub>2</sub>              | CaCO <sub>3</sub>              | O <sub>2</sub>    | H <sub>2</sub> O               | H <sub>2</sub> O <sub>2</sub> | Cu                | N <sub>2</sub>                 | HCl                            |
| 17. Au                           | Cu                             | K                 | NH <sub>3</sub>                | N <sub>2</sub>                | NaOH              | CO <sub>2</sub>                | H <sub>2</sub> O               |
| 18. Na                           | H <sub>2</sub>                 | NaCl              | N <sub>2</sub>                 | NaOH                          | HCl               | H <sub>2</sub> SO <sub>4</sub> | Cu                             |
| 19. N <sub>2</sub>               | Cu                             | NaOH              | CaCO <sub>3</sub>              | Au                            | CO <sub>2</sub>   | H <sub>2</sub> O <sub>2</sub>  | K                              |
| 20. NaOH                         | NaCl                           | KOH               | Cu                             | H <sub>2</sub> O              | N <sub>2</sub>    | K                              | O <sub>2</sub>                 |

### Chemical Bingo - Student 4

|     |                               |                  |                                |                                |                                |                                |                   |                               |
|-----|-------------------------------|------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| 1.  | CuSO <sub>4</sub>             | Na               | H <sub>2</sub> O               | CaCO <sub>3</sub>              | K                              | CO <sub>2</sub>                | NH <sub>3</sub>   | NaOH                          |
| 2.  | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub> O | O <sub>2</sub>                 | NH <sub>3</sub>                | Cu                             | Na                             | NaCl              | N <sub>2</sub>                |
| 3.  | H <sub>2</sub> O              | HCl              | K                              | Au                             | CaCO <sub>3</sub>              | HNO <sub>3</sub>               | CH <sub>4</sub>   | Cu                            |
| 4.  | N <sub>2</sub>                | HNO <sub>3</sub> | CuSO <sub>4</sub>              | CaCO <sub>3</sub>              | H <sub>2</sub> O               | O <sub>2</sub>                 | K                 | Au                            |
| 5.  | Cu                            | H <sub>2</sub>   | CH <sub>4</sub>                | N <sub>2</sub>                 | Na                             | CaCO <sub>3</sub>              | Au                | H <sub>2</sub> O <sub>2</sub> |
| 6.  | H <sub>2</sub>                | NaCl             | O <sub>2</sub>                 | KOH                            | N <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | Na                | Au                            |
| 7.  | NH <sub>3</sub>               | NaOH             | H <sub>2</sub> O <sub>2</sub>  | N <sub>2</sub>                 | Cu                             | Au                             | KOH               | Na                            |
| 8.  | NaOH                          | Na               | H <sub>2</sub> O               | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> SO <sub>4</sub> | Cu                             | H <sub>2</sub>    | HNO <sub>3</sub>              |
| 9.  | NH <sub>3</sub>               | K                | CH <sub>4</sub>                | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 | HCl                            | H <sub>2</sub> O  | Na                            |
| 10. | NH <sub>3</sub>               | O <sub>2</sub>   | NaOH                           | KOH                            | Na                             | HCl                            | Au                | HNO <sub>3</sub>              |
| 11. | CH <sub>4</sub>               | O <sub>2</sub>   | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 | H <sub>2</sub>                 | KOH                            | NaOH              | NaCl                          |
| 12. | HCl                           | NaCl             | K                              | CH <sub>4</sub>                | NaOH                           | NH <sub>3</sub>                | O <sub>2</sub>    | H <sub>2</sub>                |
| 13. | NaCl                          | CO <sub>2</sub>  | H <sub>2</sub>                 | K                              | CuSO <sub>4</sub>              | O <sub>2</sub>                 | KOH               | NaOH                          |
| 14. | Na                            | HCl              | CuSO <sub>4</sub>              | CaCO <sub>3</sub>              | N <sub>2</sub>                 | H <sub>2</sub>                 | NH <sub>3</sub>   | Au                            |
| 15. | NaCl                          | H <sub>2</sub> O | CO <sub>2</sub>                | CH <sub>4</sub>                | H <sub>2</sub> O <sub>2</sub>  | O <sub>2</sub>                 | NaOH              | Au                            |
| 16. | O <sub>2</sub>                | N <sub>2</sub>   | KOH                            | K                              | CuSO <sub>4</sub>              | H <sub>2</sub>                 | HCl               | CO <sub>2</sub>               |
| 17. | KOH                           | Au               | CaCO <sub>3</sub>              | NH <sub>3</sub>                | Na                             | K                              | N <sub>2</sub>    | CO <sub>2</sub>               |
| 18. | Na                            | O <sub>2</sub>   | NaOH                           | H <sub>2</sub> O <sub>2</sub>  | CH <sub>4</sub>                | N <sub>2</sub>                 | CaCO <sub>3</sub> | NH <sub>3</sub>               |
| 19. | Cu                            | HCl              | H <sub>2</sub>                 | CaCO <sub>3</sub>              | O <sub>2</sub>                 | CO <sub>2</sub>                | Na                | CuSO <sub>4</sub>             |
| 20. | NaCl                          | KOH              | Na                             | HCl                            | CuSO <sub>4</sub>              | CO <sub>2</sub>                | N <sub>2</sub>    | Au                            |

## Chemical Bingo - Student 5

|                                    |                                |                   |                                |                               |                   |                                |                               |
|------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------------------|-------------------|--------------------------------|-------------------------------|
| 1. KOH                             | Na                             | H <sub>2</sub> O  | CO <sub>2</sub>                | N <sub>2</sub>                | NaOH              | Cu                             | NaCl                          |
| 2. H <sub>2</sub> O <sub>2</sub>   | Cu                             | HNO <sub>3</sub>  | H <sub>2</sub>                 | K                             | CH <sub>4</sub>   | HCl                            | Au                            |
| 3. Au                              | CO <sub>2</sub>                | NaCl              | Na                             | KOH                           | N <sub>2</sub>    | K                              | H <sub>2</sub> O              |
| 4. NH <sub>3</sub>                 | HNO <sub>3</sub>               | CO <sub>2</sub>   | H <sub>2</sub> SO <sub>4</sub> | HCl                           | CaCO <sub>3</sub> | CH <sub>4</sub>                | NaCl                          |
| 5. Cu                              | N <sub>2</sub>                 | Au                | H <sub>2</sub>                 | HNO <sub>3</sub>              | O <sub>2</sub>    | CO <sub>2</sub>                | NaCl                          |
| 6. HNO <sub>3</sub>                | N <sub>2</sub>                 | Au                | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                | Na                | CuSO <sub>4</sub>              | NH <sub>3</sub>               |
| 7. CO <sub>2</sub>                 | NaOH                           | CaCO <sub>3</sub> | Cu                             | Au                            | CuSO <sub>4</sub> | CH <sub>4</sub>                | NH <sub>3</sub>               |
| 8. NH <sub>3</sub>                 | K                              | NaCl              | CaCO <sub>3</sub>              | Na                            | O <sub>2</sub>    | Au                             | NaOH                          |
| 9. Cu                              | HCl                            | Na                | O <sub>2</sub>                 | H <sub>2</sub> O              | NH <sub>3</sub>   | Au                             | CO <sub>2</sub>               |
| 10. NaCl                           | Au                             | N <sub>2</sub>    | H <sub>2</sub> O               | H <sub>2</sub> O <sub>2</sub> | CaCO <sub>3</sub> | CuSO <sub>4</sub>              | CO <sub>2</sub>               |
| 11. CO <sub>2</sub>                | Au                             | NaCl              | NaOH                           | H <sub>2</sub>                | Na                | H <sub>2</sub> O               | K                             |
| 12. HCl                            | CH <sub>4</sub>                | NaCl              | CO <sub>2</sub>                | HNO <sub>3</sub>              | Na                | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                |
| 13. NaCl                           | H <sub>2</sub>                 | Na                | NH <sub>3</sub>                | HNO <sub>3</sub>              | H <sub>2</sub> O  | K                              | CH <sub>4</sub>               |
| 14. Na                             | NaCl                           | Au                | KOH                            | O <sub>2</sub>                | CH <sub>4</sub>   | NaOH                           | H <sub>2</sub> O <sub>2</sub> |
| 15. CuSO <sub>4</sub>              | N <sub>2</sub>                 | HCl               | CH <sub>4</sub>                | NH <sub>3</sub>               | H <sub>2</sub>    | Au                             | NaCl                          |
| 16. Na                             | N <sub>2</sub>                 | NaOH              | KOH                            | NaCl                          | CH <sub>4</sub>   | CuSO <sub>4</sub>              | H <sub>2</sub> O              |
| 17. CO <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub>  | CaCO <sub>3</sub> | Na                             | H <sub>2</sub> O              | O <sub>2</sub>    | NaCl                           | K                             |
| 18. HNO <sub>3</sub>               | Au                             | NH <sub>3</sub>   | Na                             | K                             | NaOH              | H <sub>2</sub>                 | KOH                           |
| 19. H <sub>2</sub> SO <sub>4</sub> | Au                             | CuSO <sub>4</sub> | H <sub>2</sub> O <sub>2</sub>  | KOH                           | Cu                | H <sub>2</sub>                 | K                             |
| 20. Au                             | H <sub>2</sub> SO <sub>4</sub> | O <sub>2</sub>    | Cu                             | NaCl                          | CO <sub>2</sub>   | Na                             | NaOH                          |

## Chemical Bingo - Student 6

|     |                               |                                |                                |                               |                               |                                |                   |                                |
|-----|-------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------|--------------------------------|
| 1.  | CuSO <sub>4</sub>             | KOH                            | CO <sub>2</sub>                | Cu                            | HCl                           | N <sub>2</sub>                 | HNO <sub>3</sub>  | Au                             |
| 2.  | H <sub>2</sub>                | HCl                            | CO <sub>2</sub>                | Au                            | H <sub>2</sub> O <sub>2</sub> | HNO <sub>3</sub>               | KOH               | Na                             |
| 3.  | Na                            | H <sub>2</sub> SO <sub>4</sub> | CaCO <sub>3</sub>              | Cu                            | CO <sub>2</sub>               | H <sub>2</sub> O <sub>2</sub>  | CH <sub>4</sub>   | CuSO <sub>4</sub>              |
| 4.  | KOH                           | Cu                             | HNO <sub>3</sub>               | K                             | HCl                           | CO <sub>2</sub>                | NaCl              | CH <sub>4</sub>                |
| 5.  | CuSO <sub>4</sub>             | KOH                            | Na                             | H <sub>2</sub> O <sub>2</sub> | CH <sub>4</sub>               | HNO <sub>3</sub>               | H <sub>2</sub>    | Au                             |
| 6.  | CH <sub>4</sub>               | K                              | H <sub>2</sub> SO <sub>4</sub> | Na                            | O <sub>2</sub>                | H <sub>2</sub>                 | H <sub>2</sub> O  | NaOH                           |
| 7.  | HCl                           | CO <sub>2</sub>                | O <sub>2</sub>                 | HNO <sub>3</sub>              | H <sub>2</sub>                | N <sub>2</sub>                 | CuSO <sub>4</sub> | NaCl                           |
| 8.  | Cu                            | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>             | KOH                           | CO <sub>2</sub>                | Na                | NaCl                           |
| 9.  | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub>                 | Au                             | N <sub>2</sub>                | Cu                            | CH <sub>4</sub>                | CaCO <sub>3</sub> | H <sub>2</sub> O               |
| 10. | KOH                           | HNO <sub>3</sub>               | H <sub>2</sub> O               | Na                            | NH <sub>3</sub>               | Au                             | CuSO <sub>4</sub> | NaOH                           |
| 11. | KOH                           | NaOH                           | NaCl                           | Au                            | Cu                            | CuSO <sub>4</sub>              | H <sub>2</sub> O  | N <sub>2</sub>                 |
| 12. | Au                            | Na                             | CaCO <sub>3</sub>              | NH <sub>3</sub>               | Cu                            | H <sub>2</sub> O <sub>2</sub>  | HNO <sub>3</sub>  | CH <sub>4</sub>                |
| 13. | H <sub>2</sub>                | CO <sub>2</sub>                | NaCl                           | Na                            | HCl                           | H <sub>2</sub> O <sub>2</sub>  | CaCO <sub>3</sub> | H <sub>2</sub> O               |
| 14. | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub> SO <sub>4</sub> | O <sub>2</sub>                 | NH <sub>3</sub>               | H <sub>2</sub> O              | KOH                            | Cu                | H <sub>2</sub>                 |
| 15. | CaCO <sub>3</sub>             | NaCl                           | NaOH                           | H <sub>2</sub> O              | HCl                           | H <sub>2</sub> SO <sub>4</sub> | Na                | CO <sub>2</sub>                |
| 16. | H <sub>2</sub>                | NaOH                           | CaCO <sub>3</sub>              | H <sub>2</sub> O              | NH <sub>3</sub>               | CH <sub>4</sub>                | K                 | H <sub>2</sub> O <sub>2</sub>  |
| 17. | KOH                           | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>               | CaCO <sub>3</sub>             | Na                            | Au                             | O <sub>2</sub>    | K                              |
| 18. | Cu                            | N <sub>2</sub>                 | NaCl                           | CuSO <sub>4</sub>             | H <sub>2</sub>                | Na                             | O <sub>2</sub>    | NH <sub>3</sub>                |
| 19. | H <sub>2</sub> O              | N <sub>2</sub>                 | CuSO <sub>4</sub>              | KOH                           | Na                            | H <sub>2</sub> SO <sub>4</sub> | HCl               | NaOH                           |
| 20. | NaOH                          | H <sub>2</sub> O <sub>2</sub>  | K                              | HCl                           | H <sub>2</sub>                | H <sub>2</sub> O               | CO <sub>2</sub>   | H <sub>2</sub> SO <sub>4</sub> |

## Chemical Bingo - Student 7

|                                    |                                |                               |                                |                                |                                |                                |                               |
|------------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|
| 1. Cu                              | H <sub>2</sub>                 | Na                            | O <sub>2</sub>                 | CuSO <sub>4</sub>              | KOH                            | NH <sub>3</sub>                | CaCO <sub>3</sub>             |
| 2. H <sub>2</sub>                  | NH <sub>3</sub>                | Au                            | Cu                             | NaOH                           | HCl                            | H <sub>2</sub> SO <sub>4</sub> | Na                            |
| 3. HCl                             | H <sub>2</sub> O               | N <sub>2</sub>                | CuSO <sub>4</sub>              | NaOH                           | NH <sub>3</sub>                | HNO <sub>3</sub>               | CaCO <sub>3</sub>             |
| 4. H <sub>2</sub> O <sub>2</sub>   | HNO <sub>3</sub>               | K                             | NaCl                           | Au                             | H <sub>2</sub> O               | H <sub>2</sub> SO <sub>4</sub> | Cu                            |
| 5. HNO <sub>3</sub>                | O <sub>2</sub>                 | Cu                            | CuSO <sub>4</sub>              | CH <sub>4</sub>                | KOH                            | H <sub>2</sub> SO <sub>4</sub> | K                             |
| 6. CH <sub>4</sub>                 | KOH                            | Au                            | K                              | HCl                            | H <sub>2</sub> O <sub>2</sub>  | CuSO <sub>4</sub>              | Cu                            |
| 7. HCl                             | H <sub>2</sub> O               | HNO <sub>3</sub>              | H <sub>2</sub> SO <sub>4</sub> | NaCl                           | CaCO <sub>3</sub>              | H <sub>2</sub> O <sub>2</sub>  | O <sub>2</sub>                |
| 8. NaCl                            | NH <sub>3</sub>                | H <sub>2</sub> O              | HCl                            | O <sub>2</sub>                 | CuSO <sub>4</sub>              | Au                             | NaOH                          |
| 9. CO <sub>2</sub>                 | HNO <sub>3</sub>               | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub> SO <sub>4</sub> | Cu                             | CH <sub>4</sub>                | CaCO <sub>3</sub>              | K                             |
| 10. H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O <sub>2</sub>  | Na                            | N <sub>2</sub>                 | H <sub>2</sub>                 | H <sub>2</sub> O               | HNO <sub>3</sub>               | KOH                           |
| 11. CO <sub>2</sub>                | Cu                             | H <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>               | K                              | CaCO <sub>3</sub>             |
| 12. Cu                             | H <sub>2</sub> SO <sub>4</sub> | Au                            | KOH                            | CuSO <sub>4</sub>              | N <sub>2</sub>                 | HNO <sub>3</sub>               | NH <sub>3</sub>               |
| 13. H <sub>2</sub>                 | NH <sub>3</sub>                | NaCl                          | HNO <sub>3</sub>               | H <sub>2</sub> O               | CO <sub>2</sub>                | Na                             | CH <sub>4</sub>               |
| 14. CuSO <sub>4</sub>              | H <sub>2</sub> O <sub>2</sub>  | Na                            | NaCl                           | HNO <sub>3</sub>               | NH <sub>3</sub>                | HCl                            | Au                            |
| 15. NaCl                           | HNO <sub>3</sub>               | CH <sub>4</sub>               | KOH                            | HCl                            | CuSO <sub>4</sub>              | CO <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub> |
| 16. H <sub>2</sub> O <sub>2</sub>  | CO <sub>2</sub>                | CaCO <sub>3</sub>             | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>               | K                              | KOH                            | NH <sub>3</sub>               |
| 17. HNO <sub>3</sub>               | CO <sub>2</sub>                | H <sub>2</sub>                | O <sub>2</sub>                 | KOH                            | CaCO <sub>3</sub>              | Cu                             | K                             |
| 18. Cu                             | CuSO <sub>4</sub>              | H <sub>2</sub> O <sub>2</sub> | HCl                            | O <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | NaCl                           | Na                            |
| 19. KOH                            | K                              | H <sub>2</sub> O              | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> SO <sub>4</sub> | Cu                             | CH <sub>4</sub>                | O <sub>2</sub>                |
| 20. O <sub>2</sub>                 | Au                             | KOH                           | K                              | HNO <sub>3</sub>               | N <sub>2</sub>                 | CaCO <sub>3</sub>              | H <sub>2</sub> O              |

## Chemical Bingo - Student 8

|                       |                                |                                |                                |                                |                                |                               |                               |
|-----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|
| 1. Au                 | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O               | CaCO <sub>3</sub>              | KOH                            | H <sub>2</sub>                 | HNO <sub>3</sub>              | CH <sub>4</sub>               |
| 2. CO <sub>2</sub>    | CaCO <sub>3</sub>              | K                              | NaOH                           | CuSO <sub>4</sub>              | NaCl                           | KOH                           | HCl                           |
| 3. K                  | Au                             | N <sub>2</sub>                 | HCl                            | H <sub>2</sub> SO <sub>4</sub> | Cu                             | H <sub>2</sub> O <sub>2</sub> | O <sub>2</sub>                |
| 4. HCl                | Au                             | O <sub>2</sub>                 | Cu                             | CO <sub>2</sub>                | KOH                            | N <sub>2</sub>                | CuSO <sub>4</sub>             |
| 5. Cu                 | CaCO <sub>3</sub>              | H <sub>2</sub> O               | N <sub>2</sub>                 | K                              | HCl                            | Na                            | NaCl                          |
| 6. KOH                | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 | Na                             | CuSO <sub>4</sub>              | N <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub> | CaCO <sub>3</sub>             |
| 7. CaCO <sub>3</sub>  | K                              | H <sub>2</sub>                 | Cu                             | CH <sub>4</sub>                | HNO <sub>3</sub>               | NH <sub>3</sub>               | O <sub>2</sub>                |
| 8. Au                 | NaCl                           | H <sub>2</sub> O <sub>2</sub>  | NH <sub>3</sub>                | KOH                            | CH <sub>4</sub>                | K                             | CaCO <sub>3</sub>             |
| 9. Au                 | Cu                             | KOH                            | CuSO <sub>4</sub>              | NH <sub>3</sub>                | NaCl                           | K                             | CH <sub>4</sub>               |
| 10. CH <sub>4</sub>   | H <sub>2</sub>                 | Na                             | N <sub>2</sub>                 | CaCO <sub>3</sub>              | H <sub>2</sub> O               | NH <sub>3</sub>               | HCl                           |
| 11. CH <sub>4</sub>   | HNO <sub>3</sub>               | Cu                             | N <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | Na                             | NaOH                          | K                             |
| 12. Cu                | Na                             | NaCl                           | Au                             | H <sub>2</sub> SO <sub>4</sub> | NaOH                           | O <sub>2</sub>                | CuSO <sub>4</sub>             |
| 13. O <sub>2</sub>    | Au                             | H <sub>2</sub> O               | HNO <sub>3</sub>               | CO <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | Na                            | KOH                           |
| 14. HNO <sub>3</sub>  | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub>                 | HCl                            | Na                             | H <sub>2</sub> SO <sub>4</sub> | NaOH                          | CH <sub>4</sub>               |
| 15. CO <sub>2</sub>   | CaCO <sub>3</sub>              | Na                             | NaOH                           | CH <sub>4</sub>                | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> O              | NaCl                          |
| 16. CO <sub>2</sub>   | HNO <sub>3</sub>               | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 | Cu                             | NaOH                           | O <sub>2</sub>                | K                             |
| 17. NaCl              | Cu                             | O <sub>2</sub>                 | CaCO <sub>3</sub>              | CO <sub>2</sub>                | K                              | CuSO <sub>4</sub>             | NaOH                          |
| 18. CaCO <sub>3</sub> | H <sub>2</sub> O <sub>2</sub>  | Na                             | H <sub>2</sub> SO <sub>4</sub> | KOH                            | H <sub>2</sub> O               | NH <sub>3</sub>               | O <sub>2</sub>                |
| 19. NaCl              | Na                             | H <sub>2</sub> SO <sub>4</sub> | O <sub>2</sub>                 | CH <sub>4</sub>                | CO <sub>2</sub>                | K                             | H <sub>2</sub>                |
| 20. HCl               | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>                | NaCl                           | HNO <sub>3</sub>               | H <sub>2</sub>                 | CuSO <sub>4</sub>             | H <sub>2</sub> O <sub>2</sub> |



## Chemical Bingo - Student 9

|     |                   |                                |                                |                                |                                |                                |                                |                   |
|-----|-------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------|
| 1.  | NH <sub>3</sub>   | H <sub>2</sub> O <sub>2</sub>  | Cu                             | CO <sub>2</sub>                | KOH                            | H <sub>2</sub> SO <sub>4</sub> | Au                             | H <sub>2</sub>    |
| 2.  | NaOH              | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>               | O <sub>2</sub>                 | NH <sub>3</sub>                | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> O               | Au                |
| 3.  | Au                | CH <sub>4</sub>                | CuSO <sub>4</sub>              | HCl                            | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub>                 | N <sub>2</sub>                 | Na                |
| 4.  | CuSO <sub>4</sub> | Cu                             | N <sub>2</sub>                 | NaOH                           | NaCl                           | O <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | K                 |
| 5.  | Au                | HNO <sub>3</sub>               | N <sub>2</sub>                 | NaOH                           | Cu                             | K                              | CO <sub>2</sub>                | CaCO <sub>3</sub> |
| 6.  | CO <sub>2</sub>   | NaCl                           | NaOH                           | Au                             | H <sub>2</sub> O <sub>2</sub>  | HNO <sub>3</sub>               | CH <sub>4</sub>                | H <sub>2</sub>    |
| 7.  | NaOH              | NH <sub>3</sub>                | O <sub>2</sub>                 | CaCO <sub>3</sub>              | H <sub>2</sub> O <sub>2</sub>  | KOH                            | Au                             | CO <sub>2</sub>   |
| 8.  | Na                | NaCl                           | NH <sub>3</sub>                | Au                             | Cu                             | H <sub>2</sub> O               | CuSO <sub>4</sub>              | N <sub>2</sub>    |
| 9.  | HNO <sub>3</sub>  | N <sub>2</sub>                 | HCl                            | H <sub>2</sub> O               | NaCl                           | KOH                            | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>   |
| 10. | NaOH              | CO <sub>2</sub>                | K                              | NH <sub>3</sub>                | Au                             | CH <sub>4</sub>                | H <sub>2</sub> O <sub>2</sub>  | Cu                |
| 11. | NH <sub>3</sub>   | K                              | CH <sub>4</sub>                | H <sub>2</sub> O <sub>2</sub>  | CO <sub>2</sub>                | H <sub>2</sub>                 | H <sub>2</sub> O               | HCl               |
| 12. | NH <sub>3</sub>   | H <sub>2</sub>                 | K                              | H <sub>2</sub> SO <sub>4</sub> | HCl                            | CaCO <sub>3</sub>              | H <sub>2</sub> O               | HNO <sub>3</sub>  |
| 13. | NH <sub>3</sub>   | Na                             | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 | Cu                             | HCl                            | CaCO <sub>3</sub>              | KOH               |
| 14. | HCl               | K                              | NH <sub>3</sub>                | CuSO <sub>4</sub>              | CO <sub>2</sub>                | Au                             | H <sub>2</sub> O               | CH <sub>4</sub>   |
| 15. | HNO <sub>3</sub>  | Cu                             | H <sub>2</sub> O               | NH <sub>3</sub>                | H <sub>2</sub> SO <sub>4</sub> | Au                             | NaCl                           | H <sub>2</sub>    |
| 16. | NH <sub>3</sub>   | K                              | CH <sub>4</sub>                | CuSO <sub>4</sub>              | Cu                             | HCl                            | N <sub>2</sub>                 | CO <sub>2</sub>   |
| 17. | CO <sub>2</sub>   | Cu                             | CH <sub>4</sub>                | NaCl                           | CuSO <sub>4</sub>              | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 | NaOH              |
| 18. | HNO <sub>3</sub>  | Cu                             | H <sub>2</sub>                 | NaCl                           | HCl                            | Au                             | NH <sub>3</sub>                | KOH               |
| 19. | NaCl              | HNO <sub>3</sub>               | N <sub>2</sub>                 | CaCO <sub>3</sub>              | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 | CH <sub>4</sub>   |
| 20. | CuSO <sub>4</sub> | N <sub>2</sub>                 | HNO <sub>3</sub>               | CH <sub>4</sub>                | CaCO <sub>3</sub>              | H <sub>2</sub> O <sub>2</sub>  | HCl                            | Na                |

## Chemical Bingo - Student 10

|     |                 |                                |                                |                                |                                |                                |                                |                                |
|-----|-----------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 1.  | NH <sub>3</sub> | NaOH                           | HCl                            | K                              | NaCl                           | CuSO <sub>4</sub>              | H <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> |
| 2.  | NH <sub>3</sub> | CuSO <sub>4</sub>              | H <sub>2</sub> SO <sub>4</sub> | Au                             | NaCl                           | O <sub>2</sub>                 | Na                             | HCl                            |
| 3.  | NH <sub>3</sub> | H <sub>2</sub> O               | CO <sub>2</sub>                | HCl                            | KOH                            | CaCO <sub>3</sub>              | NaCl                           | K                              |
| 4.  | Na              | CuSO <sub>4</sub>              | O <sub>2</sub>                 | HCl                            | H <sub>2</sub> O               | HNO <sub>3</sub>               | K                              | NaOH                           |
| 5.  | Na              | CO <sub>2</sub>                | HNO <sub>3</sub>               | HCl                            | KOH                            | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>              | NH <sub>3</sub>                |
| 6.  | O <sub>2</sub>  | K                              | H <sub>2</sub> O               | N <sub>2</sub>                 | Cu                             | HCl                            | NaCl                           | CaCO <sub>3</sub>              |
| 7.  | N <sub>2</sub>  | H <sub>2</sub> O <sub>2</sub>  | O <sub>2</sub>                 | H <sub>2</sub>                 | H <sub>2</sub> O               | Na                             | HNO <sub>3</sub>               | CH <sub>4</sub>                |
| 8.  | CH <sub>4</sub> | NH <sub>3</sub>                | K                              | O <sub>2</sub>                 | Au                             | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>               |
| 9.  | H <sub>2</sub>  | HNO <sub>3</sub>               | Au                             | H <sub>2</sub> O               | CO <sub>2</sub>                | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | KOH                            |
| 10. | Au              | NaOH                           | NH <sub>3</sub>                | Na                             | N <sub>2</sub>                 | NaCl                           | CuSO <sub>4</sub>              | O <sub>2</sub>                 |
| 11. | Au              | NaCl                           | CaCO <sub>3</sub>              | CH <sub>4</sub>                | K                              | H <sub>2</sub>                 | CuSO <sub>4</sub>              | H <sub>2</sub> O               |
| 12. | Cu              | CH <sub>4</sub>                | H <sub>2</sub>                 | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O <sub>2</sub>  | Na                             | KOH                            |
| 13. | NaOH            | Au                             | CH <sub>4</sub>                | CaCO <sub>3</sub>              | NH <sub>3</sub>                | HNO <sub>3</sub>               | Na                             | O <sub>2</sub>                 |
| 14. | CH <sub>4</sub> | Cu                             | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | KOH                            | CO <sub>2</sub>                | NaCl                           | O <sub>2</sub>                 |
| 15. | CO <sub>2</sub> | CaCO <sub>3</sub>              | NaCl                           | H <sub>2</sub> O <sub>2</sub>  | NaOH                           | NH <sub>3</sub>                | H <sub>2</sub> O               | H <sub>2</sub>                 |
| 16. | Cu              | HCl                            | Na                             | KOH                            | NaOH                           | H <sub>2</sub>                 | Au                             | CO <sub>2</sub>                |
| 17. | KOH             | HNO <sub>3</sub>               | N <sub>2</sub>                 | O <sub>2</sub>                 | H <sub>2</sub> O               | K                              | NH <sub>3</sub>                | NaOH                           |
| 18. | Au              | KOH                            | H <sub>2</sub>                 | HCl                            | HNO <sub>3</sub>               | H <sub>2</sub> SO <sub>4</sub> | Cu                             | O <sub>2</sub>                 |
| 19. | NH <sub>3</sub> | Cu                             | H <sub>2</sub> O               | N <sub>2</sub>                 | H <sub>2</sub>                 | KOH                            | HNO <sub>3</sub>               | NaOH                           |
| 20. | K               | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>               | Au                             | NH <sub>3</sub>                | CO <sub>2</sub>                | H <sub>2</sub>                 | Na                             |

## Chemical Bingo - Student 11

|                                   |                                |                               |                  |                                |                                |                               |                                |
|-----------------------------------|--------------------------------|-------------------------------|------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|
| 1. O <sub>2</sub>                 | NaCl                           | Cu                            | HCl              | KOH                            | HNO <sub>3</sub>               | Au                            | CaCO <sub>3</sub>              |
| 2. H <sub>2</sub>                 | CO <sub>2</sub>                | CH <sub>4</sub>               | K                | CuSO <sub>4</sub>              | CaCO <sub>3</sub>              | H <sub>2</sub> O              | NaOH                           |
| 3. HCl                            | NH <sub>3</sub>                | Na                            | NaCl             | KOH                            | H <sub>2</sub> O <sub>2</sub>  | Au                            | H <sub>2</sub>                 |
| 4. NaOH                           | CaCO <sub>3</sub>              | H <sub>2</sub>                | CH <sub>4</sub>  | Cu                             | HNO <sub>3</sub>               | H <sub>2</sub> O              | CuSO <sub>4</sub>              |
| 5. CO <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | CaCO <sub>3</sub>             | NaCl             | Na                             | H <sub>2</sub> O <sub>2</sub>  | NH <sub>3</sub>               | O <sub>2</sub>                 |
| 6. HNO <sub>3</sub>               | H <sub>2</sub> SO <sub>4</sub> | NaOH                          | H <sub>2</sub> O | CaCO <sub>3</sub>              | H <sub>2</sub>                 | HCl                           | NaCl                           |
| 7. Na                             | NaOH                           | O <sub>2</sub>                | CO <sub>2</sub>  | N <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                | Cu                             |
| 8. NH <sub>3</sub>                | NaCl                           | Au                            | Cu               | HNO <sub>3</sub>               | H <sub>2</sub>                 | Na                            | H <sub>2</sub> SO <sub>4</sub> |
| 9. CO <sub>2</sub>                | O <sub>2</sub>                 | NaCl                          | KOH              | H <sub>2</sub> SO <sub>4</sub> | CH <sub>4</sub>                | CuSO <sub>4</sub>             | N <sub>2</sub>                 |
| 10. HCl                           | KOH                            | Cu                            | HNO <sub>3</sub> | K                              | Na                             | NaOH                          | CH <sub>4</sub>                |
| 11. Na                            | NaCl                           | H <sub>2</sub>                | O <sub>2</sub>   | HNO <sub>3</sub>               | CH <sub>4</sub>                | K                             | H <sub>2</sub> SO <sub>4</sub> |
| 12. O <sub>2</sub>                | HNO <sub>3</sub>               | H <sub>2</sub> O              | Na               | KOH                            | HCl                            | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub> SO <sub>4</sub> |
| 13. O <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>               | H <sub>2</sub> O | HCl                            | NaCl                           | CuSO <sub>4</sub>             | H <sub>2</sub>                 |
| 14. H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub> O               | KOH                           | HCl              | Cu                             | O <sub>2</sub>                 | Au                            | H <sub>2</sub>                 |
| 15. Na                            | K                              | NaCl                          | CH <sub>4</sub>  | Au                             | H <sub>2</sub> O               | N <sub>2</sub>                | KOH                            |
| 16. CO <sub>2</sub>               | KOH                            | H <sub>2</sub> O <sub>2</sub> | CH <sub>4</sub>  | H <sub>2</sub> O               | H <sub>2</sub> SO <sub>4</sub> | CaCO <sub>3</sub>             | Na                             |
| 17. HNO <sub>3</sub>              | CO <sub>2</sub>                | H <sub>2</sub> O              | Au               | K                              | NaOH                           | NaCl                          | O <sub>2</sub>                 |
| 18. K                             | CuSO <sub>4</sub>              | KOH                           | NaOH             | CaCO <sub>3</sub>              | CO <sub>2</sub>                | Na                            | O <sub>2</sub>                 |
| 19. NaOH                          | H <sub>2</sub>                 | K                             | NH <sub>3</sub>  | H <sub>2</sub> SO <sub>4</sub> | HCl                            | HNO <sub>3</sub>              | NaCl                           |
| 20. Na                            | HCl                            | CuSO <sub>4</sub>             | CH <sub>4</sub>  | H <sub>2</sub> O <sub>2</sub>  | NaOH                           | H <sub>2</sub> O              | O <sub>2</sub>                 |

## Chemical Bingo - Student 12

|     |                                |                                |                   |                                |                   |                                |                               |                               |
|-----|--------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------------------|-------------------------------|
| 1.  | CO <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | NaCl              | NH <sub>3</sub>                | HCl               | Au                             | K                             | H <sub>2</sub> O <sub>2</sub> |
| 2.  | KOH                            | CO <sub>2</sub>                | K                 | Cu                             | CuSO <sub>4</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH                          | NaCl                          |
| 3.  | N <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O  | CO <sub>2</sub>                | Cu                | H <sub>2</sub> O <sub>2</sub>  | Na                            | KOH                           |
| 4.  | K                              | Cu                             | HNO <sub>3</sub>  | H <sub>2</sub> SO <sub>4</sub> | Na                | Au                             | O <sub>2</sub>                | CuSO <sub>4</sub>             |
| 5.  | H <sub>2</sub>                 | NaOH                           | Au                | CaCO <sub>3</sub>              | O <sub>2</sub>    | Na                             | K                             | H <sub>2</sub> O              |
| 6.  | N <sub>2</sub>                 | HCl                            | CH <sub>4</sub>   | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub>    | NH <sub>3</sub>                | NaCl                          | HNO <sub>3</sub>              |
| 7.  | H <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> O  | CO <sub>2</sub>                | CH <sub>4</sub>   | KOH                            | NH <sub>3</sub>               | NaOH                          |
| 8.  | KOH                            | H <sub>2</sub> SO <sub>4</sub> | CaCO <sub>3</sub> | Cu                             | NH <sub>3</sub>   | H <sub>2</sub> O               | H <sub>2</sub> O <sub>2</sub> | CH <sub>4</sub>               |
| 9.  | K                              | KOH                            | CO <sub>2</sub>   | Na                             | Au                | N <sub>2</sub>                 | O <sub>2</sub>                | Cu                            |
| 10. | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 | Au                | O <sub>2</sub>                 | H <sub>2</sub> O  | CaCO <sub>3</sub>              | CO <sub>2</sub>               | CH <sub>4</sub>               |
| 11. | O <sub>2</sub>                 | CaCO <sub>3</sub>              | Na                | NH <sub>3</sub>                | K                 | HCl                            | KOH                           | NaCl                          |
| 12. | CO <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub>    | NaOH                           | H <sub>2</sub> O  | HNO <sub>3</sub>               | NaCl                          | Cu                            |
| 13. | NaCl                           | KOH                            | N <sub>2</sub>    | Au                             | NH <sub>3</sub>   | NaOH                           | O <sub>2</sub>                | H <sub>2</sub>                |
| 14. | Cu                             | H <sub>2</sub> O               | NaOH              | Na                             | O <sub>2</sub>    | CH <sub>4</sub>                | H <sub>2</sub>                | K                             |
| 15. | CO <sub>2</sub>                | H <sub>2</sub>                 | KOH               | NaOH                           | K                 | O <sub>2</sub>                 | NH <sub>3</sub>               | Cu                            |
| 16. | Cu                             | Au                             | NH <sub>3</sub>   | HCl                            | CaCO <sub>3</sub> | HNO <sub>3</sub>               | H <sub>2</sub>                | H <sub>2</sub> O              |
| 17. | NaOH                           | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> O  | CH <sub>4</sub>                | CuSO <sub>4</sub> | H <sub>2</sub>                 | CO <sub>2</sub>               | N <sub>2</sub>                |
| 18. | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>                | Cu                | HCl                            | Au                | K                              | N <sub>2</sub>                | O <sub>2</sub>                |
| 19. | H <sub>2</sub>                 | CaCO <sub>3</sub>              | NH <sub>3</sub>   | O <sub>2</sub>                 | CO <sub>2</sub>   | Na                             | CH <sub>4</sub>               | Au                            |
| 20. | HNO <sub>3</sub>               | NH <sub>3</sub>                | KOH               | CO <sub>2</sub>                | Au                | H <sub>2</sub> O <sub>2</sub>  | O <sub>2</sub>                | CuSO <sub>4</sub>             |

### Chemical Bingo - Student 13

|     |                                |                                |                                |                                |                                |                               |                                |                               |
|-----|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| 1.  | O <sub>2</sub>                 | K                              | Na                             | H <sub>2</sub> O               | HNO <sub>3</sub>               | NaOH                          | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                |
| 2.  | Na                             | CH <sub>4</sub>                | Cu                             | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 | H <sub>2</sub> O              | NaCl                           | CO <sub>2</sub>               |
| 3.  | Cu                             | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>              | NaCl                           | CH <sub>4</sub>                | KOH                           | HNO <sub>3</sub>               | NH <sub>3</sub>               |
| 4.  | HCl                            | KOH                            | CO <sub>2</sub>                | Au                             | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>             | H <sub>2</sub> O               | Na                            |
| 5.  | NaCl                           | Na                             | N <sub>2</sub>                 | CaCO <sub>3</sub>              | KOH                            | NH <sub>3</sub>               | H <sub>2</sub> O               | CH <sub>4</sub>               |
| 6.  | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O <sub>2</sub>  | Cu                             | HCl                            | H <sub>2</sub>                 | N <sub>2</sub>                | CH <sub>4</sub>                | O <sub>2</sub>                |
| 7.  | Na                             | KOH                            | H <sub>2</sub>                 | K                              | HNO <sub>3</sub>               | NaOH                          | HCl                            | O <sub>2</sub>                |
| 8.  | HNO <sub>3</sub>               | K                              | Au                             | H <sub>2</sub> O <sub>2</sub>  | NaOH                           | KOH                           | NaCl                           | CH <sub>4</sub>               |
| 9.  | HNO <sub>3</sub>               | O <sub>2</sub>                 | CaCO <sub>3</sub>              | N <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub>  | HCl                           | H <sub>2</sub> O               | K                             |
| 10. | NaCl                           | NaOH                           | H <sub>2</sub> O               | CO <sub>2</sub>                | Au                             | H <sub>2</sub> O <sub>2</sub> | HCl                            | Na                            |
| 11. | H <sub>2</sub> O               | O <sub>2</sub>                 | N <sub>2</sub>                 | NaCl                           | CuSO <sub>4</sub>              | HCl                           | Na                             | HNO <sub>3</sub>              |
| 12. | NaCl                           | NH <sub>3</sub>                | Au                             | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O <sub>2</sub>  | HCl                           | Na                             | H <sub>2</sub> O              |
| 13. | H <sub>2</sub> SO <sub>4</sub> | Cu                             | HCl                            | H <sub>2</sub> O               | NaCl                           | NaOH                          | N <sub>2</sub>                 | Au                            |
| 14. | NaOH                           | Cu                             | H <sub>2</sub> SO <sub>4</sub> | KOH                            | H <sub>2</sub> O               | HCl                           | CO <sub>2</sub>                | K                             |
| 15. | KOH                            | CH <sub>4</sub>                | HNO <sub>3</sub>               | NH <sub>3</sub>                | H <sub>2</sub> O <sub>2</sub>  | N <sub>2</sub>                | HCl                            | NaOH                          |
| 16. | Au                             | NaCl                           | KOH                            | CuSO <sub>4</sub>              | CO <sub>2</sub>                | CH <sub>4</sub>               | Cu                             | H <sub>2</sub> O <sub>2</sub> |
| 17. | KOH                            | HCl                            | NaCl                           | H <sub>2</sub>                 | O <sub>2</sub>                 | Au                            | H <sub>2</sub> O               | CuSO <sub>4</sub>             |
| 18. | Cu                             | H <sub>2</sub>                 | CaCO <sub>3</sub>              | CH <sub>4</sub>                | N <sub>2</sub>                 | H <sub>2</sub> O              | HCl                            | KOH                           |
| 19. | CuSO <sub>4</sub>              | N <sub>2</sub>                 | HCl                            | H <sub>2</sub> O               | NH <sub>3</sub>                | CO <sub>2</sub>               | HNO <sub>3</sub>               | NaCl                          |
| 20. | Na                             | KOH                            | NH <sub>3</sub>                | H <sub>2</sub> O               | CaCO <sub>3</sub>              | NaCl                          | H <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub> |

## Chemical Bingo - Student 14

|                                  |                                |                                |                                |                                |                                |                               |                               |
|----------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|
| 1. K                             | NH <sub>3</sub>                | HCl                            | NaOH                           | NaCl                           | CH <sub>4</sub>                | CO <sub>2</sub>               | H <sub>2</sub> O <sub>2</sub> |
| 2. Na                            | NH <sub>3</sub>                | HCl                            | Cu                             | NaOH                           | CuSO <sub>4</sub>              | K                             | H <sub>2</sub> O <sub>2</sub> |
| 3. CuSO <sub>4</sub>             | N <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O               | CO <sub>2</sub>                | HCl                            | H <sub>2</sub>                | O <sub>2</sub>                |
| 4. KOH                           | O <sub>2</sub>                 | CH <sub>4</sub>                | Na                             | N <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>             | H <sub>2</sub> O <sub>2</sub> |
| 5. H <sub>2</sub> O <sub>2</sub> | Au                             | NaOH                           | Cu                             | CaCO <sub>3</sub>              | KOH                            | K                             | HNO <sub>3</sub>              |
| 6. KOH                           | CH <sub>4</sub>                | Au                             | NH <sub>3</sub>                | NaCl                           | CO <sub>2</sub>                | H <sub>2</sub> O              | O <sub>2</sub>                |
| 7. Au                            | CH <sub>4</sub>                | K                              | HNO <sub>3</sub>               | H <sub>2</sub> O               | CuSO <sub>4</sub>              | NaCl                          | Na                            |
| 8. Au                            | CuSO <sub>4</sub>              | Cu                             | CH <sub>4</sub>                | NaCl                           | NaOH                           | K                             | H <sub>2</sub>                |
| 9. NH <sub>3</sub>               | NaOH                           | CuSO <sub>4</sub>              | Na                             | N <sub>2</sub>                 | CO <sub>2</sub>                | Cu                            | CaCO <sub>3</sub>             |
| 10. KOH                          | CuSO <sub>4</sub>              | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 | NaOH                           | K                              | H <sub>2</sub>                | NH <sub>3</sub>               |
| 11. Au                           | Cu                             | CuSO <sub>4</sub>              | H <sub>2</sub> O               | HNO <sub>3</sub>               | CaCO <sub>3</sub>              | NaCl                          | KOH                           |
| 12. HNO <sub>3</sub>             | Cu                             | Au                             | KOH                            | CuSO <sub>4</sub>              | CO <sub>2</sub>                | HCl                           | N <sub>2</sub>                |
| 13. H <sub>2</sub> O             | HCl                            | NaCl                           | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>                | NaOH                           | HNO <sub>3</sub>              | K                             |
| 14. NH <sub>3</sub>              | Na                             | CaCO <sub>3</sub>              | Au                             | N <sub>2</sub>                 | CuSO <sub>4</sub>              | KOH                           | HNO <sub>3</sub>              |
| 15. HNO <sub>3</sub>             | Au                             | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 | Na                             | H <sub>2</sub> O <sub>2</sub> | HCl                           |
| 16. KOH                          | Na                             | O <sub>2</sub>                 | H <sub>2</sub>                 | CO <sub>2</sub>                | NaCl                           | H <sub>2</sub> O              | CaCO <sub>3</sub>             |
| 17. HCl                          | NaCl                           | Au                             | NH <sub>3</sub>                | H <sub>2</sub> SO <sub>4</sub> | CH <sub>4</sub>                | H <sub>2</sub> O <sub>2</sub> | HNO <sub>3</sub>              |
| 18. Cu                           | Na                             | CH <sub>4</sub>                | KOH                            | N <sub>2</sub>                 | CaCO <sub>3</sub>              | HCl                           | NaOH                          |
| 19. CO <sub>2</sub>              | O <sub>2</sub>                 | CuSO <sub>4</sub>              | NaCl                           | HNO <sub>3</sub>               | N <sub>2</sub>                 | Na                            | NaOH                          |
| 20. CH <sub>4</sub>              | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O <sub>2</sub>  | HCl                            | KOH                            | H <sub>2</sub> O               | Na                            | O <sub>2</sub>                |

## Chemical Bingo - Student 15

|     |                   |                               |                                |                                |                               |                                |                                |                               |
|-----|-------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|
| 1.  | HNO <sub>3</sub>  | H <sub>2</sub> O <sub>2</sub> | CH <sub>4</sub>                | Au                             | NH <sub>3</sub>               | KOH                            | O <sub>2</sub>                 | Na                            |
| 2.  | CuSO <sub>4</sub> | H <sub>2</sub> O              | NH <sub>3</sub>                | Au                             | N <sub>2</sub>                | O <sub>2</sub>                 | Cu                             | Na                            |
| 3.  | CO <sub>2</sub>   | K                             | CuSO <sub>4</sub>              | Cu                             | CH <sub>4</sub>               | H <sub>2</sub> O               | N <sub>2</sub>                 | NaCl                          |
| 4.  | NaOH              | NH <sub>3</sub>               | Na                             | K                              | H <sub>2</sub> O <sub>2</sub> | CH <sub>4</sub>                | CaCO <sub>3</sub>              | KOH                           |
| 5.  | CaCO <sub>3</sub> | HNO <sub>3</sub>              | NaOH                           | H <sub>2</sub> O <sub>2</sub>  | CO <sub>2</sub>               | H <sub>2</sub> SO <sub>4</sub> | CH <sub>4</sub>                | N <sub>2</sub>                |
| 6.  | NaOH              | CO <sub>2</sub>               | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 | HNO <sub>3</sub>              | KOH                            | H <sub>2</sub>                 | Na                            |
| 7.  | O <sub>2</sub>    | CH <sub>4</sub>               | HCl                            | H <sub>2</sub> O               | CaCO <sub>3</sub>             | Na                             | H <sub>2</sub> SO <sub>4</sub> | Cu                            |
| 8.  | HNO <sub>3</sub>  | KOH                           | O <sub>2</sub>                 | NH <sub>3</sub>                | CuSO <sub>4</sub>             | NaOH                           | H <sub>2</sub> O               | NaCl                          |
| 9.  | NaOH              | HNO <sub>3</sub>              | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>               | Au                             | K                              | HCl                           |
| 10. | NaOH              | H <sub>2</sub> O              | CaCO <sub>3</sub>              | KOH                            | NaCl                          | K                              | HNO <sub>3</sub>               | HCl                           |
| 11. | Cu                | H <sub>2</sub>                | CO <sub>2</sub>                | O <sub>2</sub>                 | N <sub>2</sub>                | Na                             | CaCO <sub>3</sub>              | Au                            |
| 12. | NaCl              | N <sub>2</sub>                | CH <sub>4</sub>                | KOH                            | HCl                           | Cu                             | Na                             | O <sub>2</sub>                |
| 13. | O <sub>2</sub>    | HCl                           | H <sub>2</sub> O <sub>2</sub>  | CO <sub>2</sub>                | Au                            | CH <sub>4</sub>                | H <sub>2</sub> O               | NaCl                          |
| 14. | CaCO <sub>3</sub> | CuSO <sub>4</sub>             | H <sub>2</sub>                 | O <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub> | K                              | CO <sub>2</sub>                | CH <sub>4</sub>               |
| 15. | Na                | NaOH                          | KOH                            | CuSO <sub>4</sub>              | NH <sub>3</sub>               | HNO <sub>3</sub>               | CaCO <sub>3</sub>              | CH <sub>4</sub>               |
| 16. | CO <sub>2</sub>   | O <sub>2</sub>                | K                              | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> O              | CaCO <sub>3</sub>              | Au                             | Na                            |
| 17. | N <sub>2</sub>    | KOH                           | H <sub>2</sub> O               | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | K                              | HNO <sub>3</sub>              |
| 18. | CO <sub>2</sub>   | O <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | Na                             | H <sub>2</sub>                | Au                             | NaCl                           | K                             |
| 19. | HNO <sub>3</sub>  | H <sub>2</sub> O              | K                              | KOH                            | CaCO <sub>3</sub>             | Au                             | N <sub>2</sub>                 | CH <sub>4</sub>               |
| 20. | K                 | NH <sub>3</sub>               | KOH                            | Na                             | CO <sub>2</sub>               | Cu                             | N <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub> |

## Chemical Bingo - Student 16

|                                    |                   |                               |                                |                                |                               |                                |                                |
|------------------------------------|-------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|
| 1. K                               | KOH               | HNO <sub>3</sub>              | CH <sub>4</sub>                | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O              | O <sub>2</sub>                 | Na                             |
| 2. H <sub>2</sub>                  | CuSO <sub>4</sub> | NH <sub>3</sub>               | CO <sub>2</sub>                | NaCl                           | H <sub>2</sub> O              | HCl                            | CH <sub>4</sub>                |
| 3. CH <sub>4</sub>                 | H <sub>2</sub> O  | Na                            | Au                             | K                              | KOH                           | N <sub>2</sub>                 | CaCO <sub>3</sub>              |
| 4. HCl                             | N <sub>2</sub>    | CO <sub>2</sub>               | CH <sub>4</sub>                | HNO <sub>3</sub>               | K                             | CaCO <sub>3</sub>              | NH <sub>3</sub>                |
| 5. H <sub>2</sub> SO <sub>4</sub>  | HNO <sub>3</sub>  | HCl                           | NaOH                           | H <sub>2</sub> O               | NH <sub>3</sub>               | CuSO <sub>4</sub>              | K                              |
| 6. KOH                             | HNO <sub>3</sub>  | H <sub>2</sub> O <sub>2</sub> | CaCO <sub>3</sub>              | HCl                            | CuSO <sub>4</sub>             | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>                |
| 7. NaOH                            | CuSO <sub>4</sub> | Au                            | HCl                            | H <sub>2</sub>                 | Na                            | H <sub>2</sub> O <sub>2</sub>  | CO <sub>2</sub>                |
| 8. N <sub>2</sub>                  | HNO <sub>3</sub>  | O <sub>2</sub>                | NH <sub>3</sub>                | H <sub>2</sub> SO <sub>4</sub> | CH <sub>4</sub>               | H <sub>2</sub> O               | H <sub>2</sub>                 |
| 9. H <sub>2</sub>                  | HCl               | CH <sub>4</sub>               | HNO <sub>3</sub>               | CaCO <sub>3</sub>              | O <sub>2</sub>                | NaCl                           | K                              |
| 10. H <sub>2</sub> SO <sub>4</sub> | NaOH              | HNO <sub>3</sub>              | KOH                            | Au                             | CuSO <sub>4</sub>             | NH <sub>3</sub>                | CO <sub>2</sub>                |
| 11. CaCO <sub>3</sub>              | KOH               | NaCl                          | CuSO <sub>4</sub>              | H <sub>2</sub> SO <sub>4</sub> | K                             | HCl                            | Au                             |
| 12. Na                             | KOH               | H <sub>2</sub>                | CaCO <sub>3</sub>              | H <sub>2</sub> SO <sub>4</sub> | K                             | NaOH                           | N <sub>2</sub>                 |
| 13. HCl                            | Au                | KOH                           | O <sub>2</sub>                 | NH <sub>3</sub>                | H <sub>2</sub> O              | NaOH                           | CO <sub>2</sub>                |
| 14. NH <sub>3</sub>                | HCl               | NaOH                          | Na                             | K                              | H <sub>2</sub> O <sub>2</sub> | Au                             | H <sub>2</sub> SO <sub>4</sub> |
| 15. CaCO <sub>3</sub>              | Na                | H <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | NaCl                           | NH <sub>3</sub>               | HNO <sub>3</sub>               | H <sub>2</sub> O <sub>2</sub>  |
| 16. H <sub>2</sub> SO <sub>4</sub> | CH <sub>4</sub>   | CaCO <sub>3</sub>             | Cu                             | NaCl                           | NH <sub>3</sub>               | CuSO <sub>4</sub>              | Au                             |
| 17. O <sub>2</sub>                 | CuSO <sub>4</sub> | CaCO <sub>3</sub>             | CH <sub>4</sub>                | CO <sub>2</sub>                | HCl                           | H <sub>2</sub>                 | H <sub>2</sub> O               |
| 18. H <sub>2</sub> O               | NaOH              | CH <sub>4</sub>               | CaCO <sub>3</sub>              | H <sub>2</sub> O <sub>2</sub>  | Cu                            | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>              |
| 19. O <sub>2</sub>                 | H <sub>2</sub>    | Cu                            | NaCl                           | KOH                            | HNO <sub>3</sub>              | NaOH                           | H <sub>2</sub> SO <sub>4</sub> |
| 20. NH <sub>3</sub>                | CaCO <sub>3</sub> | HCl                           | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 | H <sub>2</sub> O              | Na                             | H <sub>2</sub> O <sub>2</sub>  |



## Chemical Bingo - Student 17

|     |                                |                               |                               |                                |                                |                               |                                |                   |
|-----|--------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------|
| 1.  | CH <sub>4</sub>                | Cu                            | H <sub>2</sub> O <sub>2</sub> | HNO <sub>3</sub>               | CuSO <sub>4</sub>              | H <sub>2</sub>                | O <sub>2</sub>                 | NaCl              |
| 2.  | H <sub>2</sub> O               | NH <sub>3</sub>               | N <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub>  | O <sub>2</sub>                 | CuSO <sub>4</sub>             | KOH                            | HNO <sub>3</sub>  |
| 3.  | H <sub>2</sub> O               | NH <sub>3</sub>               | CH <sub>4</sub>               | CaCO <sub>3</sub>              | KOH                            | CuSO <sub>4</sub>             | N <sub>2</sub>                 | NaOH              |
| 4.  | NaOH                           | HNO <sub>3</sub>              | NH <sub>3</sub>               | O <sub>2</sub>                 | CO <sub>2</sub>                | KOH                           | CuSO <sub>4</sub>              | NaCl              |
| 5.  | CO <sub>2</sub>                | HCl                           | NH <sub>3</sub>               | H <sub>2</sub>                 | NaOH                           | CaCO <sub>3</sub>             | Na                             | KOH               |
| 6.  | H <sub>2</sub> O <sub>2</sub>  | N <sub>2</sub>                | Na                            | H <sub>2</sub> O               | CO <sub>2</sub>                | NaOH                          | H <sub>2</sub> SO <sub>4</sub> | O <sub>2</sub>    |
| 7.  | NH <sub>3</sub>                | K                             | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub>                 | CuSO <sub>4</sub>              | Na                            | O <sub>2</sub>                 | CO <sub>2</sub>   |
| 8.  | Au                             | H <sub>2</sub> O              | HCl                           | H <sub>2</sub>                 | Na                             | N <sub>2</sub>                | CuSO <sub>4</sub>              | Cu                |
| 9.  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>              | CH <sub>4</sub>               | H <sub>2</sub> O               | HCl                            | H <sub>2</sub> O <sub>2</sub> | NH <sub>3</sub>                | H <sub>2</sub>    |
| 10. | NH <sub>3</sub>                | H <sub>2</sub>                | CaCO <sub>3</sub>             | CuSO <sub>4</sub>              | H <sub>2</sub> O <sub>2</sub>  | KOH                           | HCl                            | Cu                |
| 11. | H <sub>2</sub> O               | NaOH                          | HNO <sub>3</sub>              | KOH                            | CaCO <sub>3</sub>              | NH <sub>3</sub>               | O <sub>2</sub>                 | CuSO <sub>4</sub> |
| 12. | Cu                             | H <sub>2</sub> O <sub>2</sub> | NH <sub>3</sub>               | CH <sub>4</sub>                | NaOH                           | KOH                           | H <sub>2</sub> O               | CuSO <sub>4</sub> |
| 13. | KOH                            | NaOH                          | Au                            | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>              | NaCl                          | Cu                             | H <sub>2</sub> O  |
| 14. | CH <sub>4</sub>                | H <sub>2</sub> O              | N <sub>2</sub>                | CaCO <sub>3</sub>              | CuSO <sub>4</sub>              | NaOH                          | O <sub>2</sub>                 | CO <sub>2</sub>   |
| 15. | N <sub>2</sub>                 | CaCO <sub>3</sub>             | CH <sub>4</sub>               | CO <sub>2</sub>                | O <sub>2</sub>                 | Au                            | NaCl                           | NH <sub>3</sub>   |
| 16. | KOH                            | H <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub> | CaCO <sub>3</sub>              | HCl                            | K                             | Na                             | Cu                |
| 17. | CO <sub>2</sub>                | K                             | CaCO <sub>3</sub>             | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>             | Au                             | NaOH              |
| 18. | H <sub>2</sub>                 | O <sub>2</sub>                | Au                            | NaOH                           | HCl                            | Na                            | H <sub>2</sub> SO <sub>4</sub> | KOH               |
| 19. | CaCO <sub>3</sub>              | NaCl                          | NaOH                          | H <sub>2</sub>                 | HCl                            | KOH                           | H <sub>2</sub> O               | CH <sub>4</sub>   |
| 20. | CuSO <sub>4</sub>              | N <sub>2</sub>                | NaCl                          | H <sub>2</sub> SO <sub>4</sub> | K                              | NaOH                          | NH <sub>3</sub>                | CO <sub>2</sub>   |

## Chemical Bingo - Student 18

|     |                                |                               |                               |                               |                                |                                |                                |                                |
|-----|--------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 1.  | O <sub>2</sub>                 | NH <sub>3</sub>               | Au                            | KOH                           | NaOH                           | HNO <sub>3</sub>               | CH <sub>4</sub>                | CO <sub>2</sub>                |
| 2.  | CaCO <sub>3</sub>              | CuSO <sub>4</sub>             | N <sub>2</sub>                | KOH                           | Au                             | H <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | K                              |
| 3.  | H <sub>2</sub>                 | Au                            | NH <sub>3</sub>               | NaCl                          | H <sub>2</sub> O <sub>2</sub>  | Na                             | HNO <sub>3</sub>               | CuSO <sub>4</sub>              |
| 4.  | CaCO <sub>3</sub>              | CuSO <sub>4</sub>             | H <sub>2</sub> O <sub>2</sub> | HNO <sub>3</sub>              | H <sub>2</sub>                 | Au                             | NaOH                           | K                              |
| 5.  | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                | NaOH                          | HCl                           | K                              | HNO <sub>3</sub>               | N <sub>2</sub>                 | NH <sub>3</sub>                |
| 6.  | CaCO <sub>3</sub>              | NaOH                          | N <sub>2</sub>                | K                             | NH <sub>3</sub>                | H <sub>2</sub> O <sub>2</sub>  | NaCl                           | Cu                             |
| 7.  | O <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub> | NH <sub>3</sub>               | Cu                            | H <sub>2</sub> O               | H <sub>2</sub>                 | HNO <sub>3</sub>               | KOH                            |
| 8.  | K                              | HNO <sub>3</sub>              | CH <sub>4</sub>               | CO <sub>2</sub>               | NaOH                           | Na                             | H <sub>2</sub> O <sub>2</sub>  | HCl                            |
| 9.  | HNO <sub>3</sub>               | Au                            | H <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub> O               | N <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>              |
| 10. | H <sub>2</sub> SO <sub>4</sub> | O <sub>2</sub>                | NH <sub>3</sub>               | CH <sub>4</sub>               | HCl                            | HNO <sub>3</sub>               | H <sub>2</sub>                 | NaCl                           |
| 11. | Cu                             | N <sub>2</sub>                | HNO <sub>3</sub>              | K                             | H <sub>2</sub>                 | H <sub>2</sub> O               | CH <sub>4</sub>                | CaCO <sub>3</sub>              |
| 12. | CH <sub>4</sub>                | K                             | H <sub>2</sub> O <sub>2</sub> | HNO <sub>3</sub>              | Na                             | CO <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>              |
| 13. | CaCO <sub>3</sub>              | O <sub>2</sub>                | Na                            | HCl                           | H <sub>2</sub>                 | Au                             | H <sub>2</sub> O <sub>2</sub>  | NaCl                           |
| 14. | Na                             | N <sub>2</sub>                | HNO <sub>3</sub>              | Au                            | K                              | H <sub>2</sub> SO <sub>4</sub> | CaCO <sub>3</sub>              | HCl                            |
| 15. | NH <sub>3</sub>                | H <sub>2</sub> O              | H <sub>2</sub>                | KOH                           | K                              | N <sub>2</sub>                 | CuSO <sub>4</sub>              | CO <sub>2</sub>                |
| 16. | Au                             | HCl                           | NH <sub>3</sub>               | NaOH                          | N <sub>2</sub>                 | CuSO <sub>4</sub>              | Na                             | K                              |
| 17. | NaOH                           | CH <sub>4</sub>               | H <sub>2</sub> O <sub>2</sub> | HNO <sub>3</sub>              | H <sub>2</sub> SO <sub>4</sub> | Au                             | KOH                            | O <sub>2</sub>                 |
| 18. | HCl                            | KOH                           | CaCO <sub>3</sub>             | Na                            | Au                             | Cu                             | NaCl                           | NH <sub>3</sub>                |
| 19. | CaCO <sub>3</sub>              | H <sub>2</sub> O <sub>2</sub> | O <sub>2</sub>                | NH <sub>3</sub>               | Na                             | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>                | HNO <sub>3</sub>               |
| 20. | K                              | CO <sub>2</sub>               | CH <sub>4</sub>               | NH <sub>3</sub>               | O <sub>2</sub>                 | NaCl                           | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> SO <sub>4</sub> |

## Chemical Bingo - Student 19

|                                   |                   |                                |                   |                               |                                |                                |                   |
|-----------------------------------|-------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|--------------------------------|-------------------|
| 1. KOH                            | HCl               | NaCl                           | Au                | Cu                            | NaOH                           | H <sub>2</sub> O               | NH <sub>3</sub>   |
| 2. CO <sub>2</sub>                | HCl               | H <sub>2</sub> SO <sub>4</sub> | CH <sub>4</sub>   | H <sub>2</sub>                | HNO <sub>3</sub>               | Na                             | Cu                |
| 3. NaOH                           | NH <sub>3</sub>   | H <sub>2</sub> O <sub>2</sub>  | Cu                | N <sub>2</sub>                | CO <sub>2</sub>                | HCl                            | KOH               |
| 4. Au                             | Cu                | CH <sub>4</sub>                | KOH               | H <sub>2</sub> O <sub>2</sub> | HNO <sub>3</sub>               | CuSO <sub>4</sub>              | NaCl              |
| 5. HCl                            | N <sub>2</sub>    | NaCl                           | HNO <sub>3</sub>  | NH <sub>3</sub>               | CH <sub>4</sub>                | CO <sub>2</sub>                | O <sub>2</sub>    |
| 6. N <sub>2</sub>                 | NaCl              | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>   | H <sub>2</sub> O <sub>2</sub> | KOH                            | Au                             | CH <sub>4</sub>   |
| 7. NaCl                           | N <sub>2</sub>    | KOH                            | Cu                | CaCO <sub>3</sub>             | CH <sub>4</sub>                | K                              | NaOH              |
| 8. N <sub>2</sub>                 | NaOH              | CO <sub>2</sub>                | H <sub>2</sub> O  | HNO <sub>3</sub>              | Au                             | Cu                             | K                 |
| 9. HNO <sub>3</sub>               | CaCO <sub>3</sub> | O <sub>2</sub>                 | CuSO <sub>4</sub> | CH <sub>4</sub>               | NaCl                           | NaOH                           | K                 |
| 10. NaOH                          | Au                | H <sub>2</sub> SO <sub>4</sub> | HCl               | NH <sub>3</sub>               | Cu                             | KOH                            | CO <sub>2</sub>   |
| 11. NaCl                          | N <sub>2</sub>    | Cu                             | O <sub>2</sub>    | HCl                           | NaOH                           | CH <sub>4</sub>                | K                 |
| 12. O <sub>2</sub>                | N <sub>2</sub>    | KOH                            | NaCl              | H <sub>2</sub> O              | Au                             | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub> |
| 13. H <sub>2</sub> O              | NaCl              | NaOH                           | K                 | N <sub>2</sub>                | KOH                            | H <sub>2</sub> SO <sub>4</sub> | CH <sub>4</sub>   |
| 14. Na                            | Cu                | NaOH                           | HCl               | H <sub>2</sub> O              | H <sub>2</sub> SO <sub>4</sub> | K                              | CH <sub>4</sub>   |
| 15. CH <sub>4</sub>               | CO <sub>2</sub>   | O <sub>2</sub>                 | Cu                | N <sub>2</sub>                | HCl                            | H <sub>2</sub> O               | NaOH              |
| 16. H <sub>2</sub> O <sub>2</sub> | Au                | NaCl                           | Cu                | O <sub>2</sub>                | CaCO <sub>3</sub>              | H <sub>2</sub> O               | KOH               |
| 17. HCl                           | KOH               | Au                             | H <sub>2</sub>    | K                             | CaCO <sub>3</sub>              | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub> |
| 18. Cu                            | H <sub>2</sub> O  | N <sub>2</sub>                 | NaOH              | H <sub>2</sub> O <sub>2</sub> | CuSO <sub>4</sub>              | CH <sub>4</sub>                | NH <sub>3</sub>   |
| 19. K                             | HCl               | KOH                            | H <sub>2</sub>    | H <sub>2</sub> O <sub>2</sub> | CO <sub>2</sub>                | CaCO <sub>3</sub>              | Na                |
| 20. HNO <sub>3</sub>              | N <sub>2</sub>    | Cu                             | H <sub>2</sub> O  | CH <sub>4</sub>               | H <sub>2</sub>                 | KOH                            | HCl               |

## Chemical Bingo - Student 20

|     |                               |                   |                               |                                |                               |                               |                                |                                |
|-----|-------------------------------|-------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|
| 1.  | HNO <sub>3</sub>              | Au                | H <sub>2</sub> O              | H <sub>2</sub> SO <sub>4</sub> | HCl                           | N <sub>2</sub>                | KOH                            | O <sub>2</sub>                 |
| 2.  | N <sub>2</sub>                | O <sub>2</sub>    | CO <sub>2</sub>               | CuSO <sub>4</sub>              | H <sub>2</sub> O              | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>                |
| 3.  | H <sub>2</sub> O <sub>2</sub> | O <sub>2</sub>    | KOH                           | Au                             | HCl                           | CO <sub>2</sub>               | H <sub>2</sub> O               | HNO <sub>3</sub>               |
| 4.  | KOH                           | N <sub>2</sub>    | HNO <sub>3</sub>              | K                              | Au                            | H <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub>  | O <sub>2</sub>                 |
| 5.  | CuSO <sub>4</sub>             | HCl               | H <sub>2</sub> O              | N <sub>2</sub>                 | Cu                            | K                             | NaOH                           | H <sub>2</sub>                 |
| 6.  | KOH                           | Au                | HNO <sub>3</sub>              | CuSO <sub>4</sub>              | O <sub>2</sub>                | N <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | NaOH                           |
| 7.  | HCl                           | CH <sub>4</sub>   | N <sub>2</sub>                | K                              | Na                            | CaCO <sub>3</sub>             | NaOH                           | NH <sub>3</sub>                |
| 8.  | Na                            | H <sub>2</sub>    | Cu                            | KOH                            | CO <sub>2</sub>               | CaCO <sub>3</sub>             | Au                             | H <sub>2</sub> O               |
| 9.  | KOH                           | N <sub>2</sub>    | K                             | HCl                            | Au                            | Cu                            | O <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub>  |
| 10. | HNO <sub>3</sub>              | Au                | NaCl                          | Na                             | N <sub>2</sub>                | HCl                           | H <sub>2</sub> O               | H <sub>2</sub>                 |
| 11. | N <sub>2</sub>                | Na                | CH <sub>4</sub>               | NaCl                           | H <sub>2</sub> O <sub>2</sub> | CaCO <sub>3</sub>             | NaOH                           | H <sub>2</sub> SO <sub>4</sub> |
| 12. | O <sub>2</sub>                | HCl               | Na                            | NaCl                           | HNO <sub>3</sub>              | NaOH                          | CaCO <sub>3</sub>              | Au                             |
| 13. | Cu                            | K                 | KOH                           | CuSO <sub>4</sub>              | CaCO <sub>3</sub>             | Na                            | N <sub>2</sub>                 | H <sub>2</sub> O               |
| 14. | H <sub>2</sub> O              | HNO <sub>3</sub>  | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub> SO <sub>4</sub> | Na                            | N <sub>2</sub>                | NH <sub>3</sub>                | NaCl                           |
| 15. | Cu                            | NaCl              | K                             | H <sub>2</sub> O <sub>2</sub>  | HNO <sub>3</sub>              | NH <sub>3</sub>               | H <sub>2</sub> SO <sub>4</sub> | KOH                            |
| 16. | Cu                            | CaCO <sub>3</sub> | NH <sub>3</sub>               | N <sub>2</sub>                 | KOH                           | H <sub>2</sub>                | Na                             | Au                             |
| 17. | NaCl                          | H <sub>2</sub> O  | CO <sub>2</sub>               | CaCO <sub>3</sub>              | CuSO <sub>4</sub>             | HNO <sub>3</sub>              | H <sub>2</sub> O <sub>2</sub>  | KOH                            |
| 18. | H <sub>2</sub> O              | CO <sub>2</sub>   | CaCO <sub>3</sub>             | O <sub>2</sub>                 | KOH                           | NaOH                          | CuSO <sub>4</sub>              | HNO <sub>3</sub>               |
| 19. | Au                            | H <sub>2</sub>    | NaOH                          | K                              | HCl                           | Na                            | CaCO <sub>3</sub>              | HNO <sub>3</sub>               |
| 20. | CuSO <sub>4</sub>             | H <sub>2</sub>    | HCl                           | CO <sub>2</sub>                | Cu                            | CaCO <sub>3</sub>             | Na                             | H <sub>2</sub> SO <sub>4</sub> |

## Chemical Bingo - Student 21

|                       |                                |                                |                                |                               |                                |                   |                                |
|-----------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------|--------------------------------|
| 1. NaOH               | CH <sub>4</sub>                | CO <sub>2</sub>                | O <sub>2</sub>                 | N <sub>2</sub>                | Au                             | NH <sub>3</sub>   | K                              |
| 2. Cu                 | CH <sub>4</sub>                | NaCl                           | KOH                            | H <sub>2</sub> O <sub>2</sub> | CaCO <sub>3</sub>              | O <sub>2</sub>    | H <sub>2</sub> SO <sub>4</sub> |
| 3. Na                 | H <sub>2</sub> O               | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>               | KOH                           | HCl                            | Au                | H <sub>2</sub> O <sub>2</sub>  |
| 4. Cu                 | H <sub>2</sub> O <sub>2</sub>  | K                              | H <sub>2</sub>                 | NaOH                          | H <sub>2</sub> SO <sub>4</sub> | NaCl              | CH <sub>4</sub>                |
| 5. NaCl               | HCl                            | NH <sub>3</sub>                | Na                             | Au                            | NaOH                           | K                 | CuSO <sub>4</sub>              |
| 6. HCl                | H <sub>2</sub> O <sub>2</sub>  | NaOH                           | NH <sub>3</sub>                | O <sub>2</sub>                | CO <sub>2</sub>                | KOH               | H <sub>2</sub> O               |
| 7. NaOH               | N <sub>2</sub>                 | CuSO <sub>4</sub>              | NH <sub>3</sub>                | HCl                           | K                              | KOH               | H <sub>2</sub> SO <sub>4</sub> |
| 8. HCl                | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | K                              | Au                            | H <sub>2</sub> O               | CuSO <sub>4</sub> | CaCO <sub>3</sub>              |
| 9. KOH                | CuSO <sub>4</sub>              | Au                             | N <sub>2</sub>                 | H <sub>2</sub> O              | H <sub>2</sub> SO <sub>4</sub> | K                 | Cu                             |
| 10. K                 | HNO <sub>3</sub>               | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> SO <sub>4</sub> | Na                            | Au                             | H <sub>2</sub> O  | NH <sub>3</sub>                |
| 11. O <sub>2</sub>    | NaCl                           | K                              | H <sub>2</sub>                 | CH <sub>4</sub>               | CuSO <sub>4</sub>              | NH <sub>3</sub>   | N <sub>2</sub>                 |
| 12. Cu                | K                              | NH <sub>3</sub>                | H <sub>2</sub> O <sub>2</sub>  | HCl                           | NaCl                           | CO <sub>2</sub>   | N <sub>2</sub>                 |
| 13. Na                | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>                | NaCl                          | CH <sub>4</sub>                | N <sub>2</sub>    | Cu                             |
| 14. CuSO <sub>4</sub> | O <sub>2</sub>                 | NaCl                           | Au                             | H <sub>2</sub> O              | K                              | HCl               | HNO <sub>3</sub>               |
| 15. H <sub>2</sub>    | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub>  | HCl                           | HNO <sub>3</sub>               | NaOH              | NH <sub>3</sub>                |
| 16. H <sub>2</sub> O  | HNO <sub>3</sub>               | H <sub>2</sub> SO <sub>4</sub> | KOH                            | CH <sub>4</sub>               | H <sub>2</sub> O <sub>2</sub>  | Cu                | Au                             |
| 17. HNO <sub>3</sub>  | H <sub>2</sub> O <sub>2</sub>  | HCl                            | N <sub>2</sub>                 | NaCl                          | O <sub>2</sub>                 | CH <sub>4</sub>   | K                              |
| 18. NH <sub>3</sub>   | CO <sub>2</sub>                | CaCO <sub>3</sub>              | CuSO <sub>4</sub>              | K                             | H <sub>2</sub> O               | H <sub>2</sub>    | N <sub>2</sub>                 |
| 19. CO <sub>2</sub>   | KOH                            | N <sub>2</sub>                 | CuSO <sub>4</sub>              | H <sub>2</sub> O              | CH <sub>4</sub>                | K                 | O <sub>2</sub>                 |
| 20. HNO <sub>3</sub>  | CaCO <sub>3</sub>              | K                              | CO <sub>2</sub>                | NaCl                          | NH <sub>3</sub>                | H <sub>2</sub>    | N <sub>2</sub>                 |

## Chemical Bingo - Student 22

|                                    |                               |                                |                                |                  |                               |                                |                                |
|------------------------------------|-------------------------------|--------------------------------|--------------------------------|------------------|-------------------------------|--------------------------------|--------------------------------|
| 1. NaCl                            | H <sub>2</sub> O <sub>2</sub> | K                              | NH <sub>3</sub>                | Na               | O <sub>2</sub>                | NaOH                           | H <sub>2</sub>                 |
| 2. CO <sub>2</sub>                 | CH <sub>4</sub>               | H <sub>2</sub>                 | CaCO <sub>3</sub>              | K                | Na                            | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O               |
| 3. CaCO <sub>3</sub>               | N <sub>2</sub>                | KOH                            | HNO <sub>3</sub>               | CH <sub>4</sub>  | CuSO <sub>4</sub>             | HCl                            | Au                             |
| 4. Na                              | Cu                            | N <sub>2</sub>                 | HNO <sub>3</sub>               | H <sub>2</sub>   | CuSO <sub>4</sub>             | O <sub>2</sub>                 | K                              |
| 5. CO <sub>2</sub>                 | H <sub>2</sub> O              | Cu                             | H <sub>2</sub> SO <sub>4</sub> | Au               | KOH                           | NaOH                           | CuSO <sub>4</sub>              |
| 6. CH <sub>4</sub>                 | N <sub>2</sub>                | CuSO <sub>4</sub>              | Na                             | NH <sub>3</sub>  | NaOH                          | H <sub>2</sub>                 | NaCl                           |
| 7. CaCO <sub>3</sub>               | NH <sub>3</sub>               | N <sub>2</sub>                 | K                              | O <sub>2</sub>   | Na                            | HCl                            | CO <sub>2</sub>                |
| 8. Na                              | H <sub>2</sub>                | O <sub>2</sub>                 | CH <sub>4</sub>                | K                | Au                            | N <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub>  |
| 9. H <sub>2</sub> O <sub>2</sub>   | N <sub>2</sub>                | NaOH                           | CuSO <sub>4</sub>              | H <sub>2</sub>   | KOH                           | Au                             | H <sub>2</sub> SO <sub>4</sub> |
| 10. H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O              | NaOH                           | Cu                             | NaCl             | H <sub>2</sub> O <sub>2</sub> | HNO <sub>3</sub>               | NH <sub>3</sub>                |
| 11. N <sub>2</sub>                 | O <sub>2</sub>                | HNO <sub>3</sub>               | H <sub>2</sub>                 | CO <sub>2</sub>  | Cu                            | NaOH                           | H <sub>2</sub> O               |
| 12. H <sub>2</sub>                 | KOH                           | HCl                            | NaOH                           | Au               | O <sub>2</sub>                | Na                             | HNO <sub>3</sub>               |
| 13. CO <sub>2</sub>                | NaOH                          | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O               | Au               | CuSO <sub>4</sub>             | H <sub>2</sub> O <sub>2</sub>  | N <sub>2</sub>                 |
| 14. CuSO <sub>4</sub>              | KOH                           | NaCl                           | O <sub>2</sub>                 | H <sub>2</sub> O | NH <sub>3</sub>               | Na                             | H <sub>2</sub>                 |
| 15. Na                             | HCl                           | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>                | O <sub>2</sub>   | K                             | NaCl                           | N <sub>2</sub>                 |
| 16. H <sub>2</sub> O <sub>2</sub>  | CaCO <sub>3</sub>             | NH <sub>3</sub>                | H <sub>2</sub>                 | HNO <sub>3</sub> | CuSO <sub>4</sub>             | Na                             | H <sub>2</sub> O               |
| 17. NH <sub>3</sub>                | CH <sub>4</sub>               | NaCl                           | CO <sub>2</sub>                | N <sub>2</sub>   | Na                            | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>               |
| 18. CuSO <sub>4</sub>              | N <sub>2</sub>                | CaCO <sub>3</sub>              | KOH                            | K                | HNO <sub>3</sub>              | CH <sub>4</sub>                | Na                             |
| 19. KOH                            | NaCl                          | H <sub>2</sub> O <sub>2</sub>  | HCl                            | CH <sub>4</sub>  | H <sub>2</sub>                | Cu                             | NaOH                           |
| 20. NH <sub>3</sub>                | Au                            | Na                             | NaOH                           | H <sub>2</sub>   | CuSO <sub>4</sub>             | HNO <sub>3</sub>               | CaCO <sub>3</sub>              |

### Chemical Bingo - Student 23

|     |                               |                               |                                |                                |                                |                                |                                |                                |
|-----|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 1.  | HNO <sub>3</sub>              | NaOH                          | O <sub>2</sub>                 | CaCO <sub>3</sub>              | H <sub>2</sub>                 | Cu                             | H <sub>2</sub> SO <sub>4</sub> | Na                             |
| 2.  | N <sub>2</sub>                | CH <sub>4</sub>               | NH <sub>3</sub>                | Cu                             | CaCO <sub>3</sub>              | KOH                            | Au                             | Na                             |
| 3.  | HCl                           | CO <sub>2</sub>               | NaCl                           | K                              | CH <sub>4</sub>                | Cu                             | CuSO <sub>4</sub>              | O <sub>2</sub>                 |
| 4.  | HNO <sub>3</sub>              | Na                            | O <sub>2</sub>                 | H <sub>2</sub>                 | Cu                             | KOH                            | CuSO <sub>4</sub>              | H <sub>2</sub> O <sub>2</sub>  |
| 5.  | NH <sub>3</sub>               | Cu                            | CaCO <sub>3</sub>              | CH <sub>4</sub>                | CO <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | K                              | Na                             |
| 6.  | Cu                            | K                             | HNO <sub>3</sub>               | Na                             | CO <sub>2</sub>                | Au                             | H <sub>2</sub> O               | KOH                            |
| 7.  | CH <sub>4</sub>               | CO <sub>2</sub>               | O <sub>2</sub>                 | CaCO <sub>3</sub>              | CuSO <sub>4</sub>              | H <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | NaCl                           |
| 8.  | K                             | O <sub>2</sub>                | Au                             | N <sub>2</sub>                 | HCl                            | H <sub>2</sub>                 | CaCO <sub>3</sub>              | H <sub>2</sub> O               |
| 9.  | Cu                            | O <sub>2</sub>                | NaCl                           | NH <sub>3</sub>                | H <sub>2</sub> O               | H <sub>2</sub> SO <sub>4</sub> | CaCO <sub>3</sub>              | H <sub>2</sub>                 |
| 10. | NaCl                          | Au                            | CaCO <sub>3</sub>              | KOH                            | HNO <sub>3</sub>               | CH <sub>4</sub>                | Na                             | H <sub>2</sub> O               |
| 11. | CuSO <sub>4</sub>             | CO <sub>2</sub>               | N <sub>2</sub>                 | Cu                             | H <sub>2</sub> O               | O <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>                |
| 12. | H <sub>2</sub> O <sub>2</sub> | K                             | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>                | Cu                             | CuSO <sub>4</sub>              | Au                             | KOH                            |
| 13. | N <sub>2</sub>                | HCl                           | NH <sub>3</sub>                | Na                             | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 | O <sub>2</sub>                 |
| 14. | H <sub>2</sub> O              | HNO <sub>3</sub>              | Na                             | Cu                             | H <sub>2</sub> O <sub>2</sub>  | CH <sub>4</sub>                | HCl                            | H <sub>2</sub> SO <sub>4</sub> |
| 15. | CaCO <sub>3</sub>             | NH <sub>3</sub>               | NaCl                           | NaOH                           | Cu                             | H <sub>2</sub> O <sub>2</sub>  | O <sub>2</sub>                 | CuSO <sub>4</sub>              |
| 16. | KOH                           | HNO <sub>3</sub>              | CaCO <sub>3</sub>              | Cu                             | CuSO <sub>4</sub>              | K                              | H <sub>2</sub> SO <sub>4</sub> | NaOH                           |
| 17. | CaCO <sub>3</sub>             | CuSO <sub>4</sub>             | NaOH                           | Cu                             | N <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | KOH                            | H <sub>2</sub> O <sub>2</sub>  |
| 18. | Cu                            | H <sub>2</sub> O <sub>2</sub> | CH <sub>4</sub>                | NaOH                           | CaCO <sub>3</sub>              | N <sub>2</sub>                 | HCl                            | CO <sub>2</sub>                |
| 19. | N <sub>2</sub>                | NaOH                          | NH <sub>3</sub>                | K                              | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>                | NaCl                           | Au                             |
| 20. | NaOH                          | CuSO <sub>4</sub>             | H <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | NaCl                           | Na                             | NH <sub>3</sub>                | H <sub>2</sub> O               |

## Chemical Bingo - Student 24

|     |                                |                               |                               |                                |                                |                                |                   |                                |
|-----|--------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------|--------------------------------|
| 1.  | H <sub>2</sub> SO <sub>4</sub> | O <sub>2</sub>                | KOH                           | NaOH                           | N <sub>2</sub>                 | Cu                             | CuSO <sub>4</sub> | CO <sub>2</sub>                |
| 2.  | HNO <sub>3</sub>               | CH <sub>4</sub>               | NaOH                          | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 | KOH                            | H <sub>2</sub>    | CaCO <sub>3</sub>              |
| 3.  | Cu                             | CH <sub>4</sub>               | H <sub>2</sub> O <sub>2</sub> | NH <sub>3</sub>                | H <sub>2</sub> O               | CO <sub>2</sub>                | KOH               | NaOH                           |
| 4.  | CaCO <sub>3</sub>              | H <sub>2</sub>                | H <sub>2</sub> O              | NaCl                           | NH <sub>3</sub>                | HCl                            | Na                | Cu                             |
| 5.  | HNO <sub>3</sub>               | Cu                            | HCl                           | NH <sub>3</sub>                | H <sub>2</sub>                 | KOH                            | Na                | CaCO <sub>3</sub>              |
| 6.  | HNO <sub>3</sub>               | Na                            | NH <sub>3</sub>               | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 | NaOH              | H <sub>2</sub> O               |
| 7.  | NH <sub>3</sub>                | O <sub>2</sub>                | Cu                            | HCl                            | NaOH                           | H <sub>2</sub>                 | Au                | H <sub>2</sub> SO <sub>4</sub> |
| 8.  | KOH                            | CH <sub>4</sub>               | H <sub>2</sub> O              | CaCO <sub>3</sub>              | NaOH                           | Au                             | HNO <sub>3</sub>  | H <sub>2</sub>                 |
| 9.  | CO <sub>2</sub>                | NaOH                          | N <sub>2</sub>                | Au                             | O <sub>2</sub>                 | CaCO <sub>3</sub>              | H <sub>2</sub>    | HNO <sub>3</sub>               |
| 10. | Au                             | HCl                           | HNO <sub>3</sub>              | Cu                             | CH <sub>4</sub>                | KOH                            | O <sub>2</sub>    | H <sub>2</sub> O               |
| 11. | HCl                            | NaOH                          | Cu                            | CaCO <sub>3</sub>              | Au                             | K                              | NaCl              | O <sub>2</sub>                 |
| 12. | H <sub>2</sub> SO <sub>4</sub> | NaOH                          | K                             | HNO <sub>3</sub>               | CO <sub>2</sub>                | Au                             | KOH               | HCl                            |
| 13. | H <sub>2</sub> SO <sub>4</sub> | KOH                           | H <sub>2</sub> O <sub>2</sub> | HCl                            | NaCl                           | H <sub>2</sub> O               | NaOH              | HNO <sub>3</sub>               |
| 14. | H <sub>2</sub>                 | H <sub>2</sub> O              | CH <sub>4</sub>               | K                              | Au                             | N <sub>2</sub>                 | CaCO <sub>3</sub> | H <sub>2</sub> O <sub>2</sub>  |
| 15. | CuSO <sub>4</sub>              | N <sub>2</sub>                | K                             | HCl                            | NaCl                           | H <sub>2</sub> O <sub>2</sub>  | NaOH              | O <sub>2</sub>                 |
| 16. | K                              | H <sub>2</sub> O <sub>2</sub> | NaOH                          | N <sub>2</sub>                 | CuSO <sub>4</sub>              | KOH                            | NaCl              | H <sub>2</sub> SO <sub>4</sub> |
| 17. | O <sub>2</sub>                 | HCl                           | H <sub>2</sub> O              | Au                             | CH <sub>4</sub>                | H <sub>2</sub> SO <sub>4</sub> | K                 | H <sub>2</sub> O <sub>2</sub>  |
| 18. | H <sub>2</sub> O               | NaOH                          | N <sub>2</sub>                | KOH                            | NaCl                           | Na                             | K                 | H <sub>2</sub> O <sub>2</sub>  |
| 19. | H <sub>2</sub>                 | CH <sub>4</sub>               | H <sub>2</sub> O <sub>2</sub> | NH <sub>3</sub>                | H <sub>2</sub> SO <sub>4</sub> | K                              | HNO <sub>3</sub>  | CO <sub>2</sub>                |
| 20. | H <sub>2</sub>                 | NH <sub>3</sub>               | O <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub>  | Au                             | HCl                            | N <sub>2</sub>    | Na                             |



## Chemical Bingo - Student 25

|     |                                |                   |                                |                   |                                |                                |                                |                                |
|-----|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 1.  | NH <sub>3</sub>                | KOH               | HCl                            | H <sub>2</sub> O  | Au                             | CH <sub>4</sub>                | CaCO <sub>3</sub>              | Cu                             |
| 2.  | N <sub>2</sub>                 | CO <sub>2</sub>   | H <sub>2</sub> SO <sub>4</sub> | K                 | Cu                             | O <sub>2</sub>                 | CH <sub>4</sub>                | NaOH                           |
| 3.  | H <sub>2</sub> O <sub>2</sub>  | O <sub>2</sub>    | H <sub>2</sub>                 | H <sub>2</sub> O  | CuSO <sub>4</sub>              | K                              | N <sub>2</sub>                 | NaOH                           |
| 4.  | Au                             | H <sub>2</sub> O  | NH <sub>3</sub>                | K                 | Na                             | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>               |
| 5.  | HCl                            | KOH               | H <sub>2</sub> SO <sub>4</sub> | K                 | H <sub>2</sub> O               | N <sub>2</sub>                 | Cu                             | H <sub>2</sub> O <sub>2</sub>  |
| 6.  | Na                             | Au                | CaCO <sub>3</sub>              | NaCl              | H <sub>2</sub>                 | KOH                            | HCl                            | O <sub>2</sub>                 |
| 7.  | CaCO <sub>3</sub>              | HNO <sub>3</sub>  | NH <sub>3</sub>                | H <sub>2</sub>    | H <sub>2</sub> SO <sub>4</sub> | NaCl                           | NaOH                           | CuSO <sub>4</sub>              |
| 8.  | H <sub>2</sub> O               | CH <sub>4</sub>   | H <sub>2</sub>                 | CuSO <sub>4</sub> | K                              | Au                             | KOH                            | Na                             |
| 9.  | CuSO <sub>4</sub>              | HCl               | H <sub>2</sub>                 | N <sub>2</sub>    | NH <sub>3</sub>                | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>               | H <sub>2</sub> O <sub>2</sub>  |
| 10. | H <sub>2</sub> SO <sub>4</sub> | NaCl              | Cu                             | HNO <sub>3</sub>  | CaCO <sub>3</sub>              | NH <sub>3</sub>                | CO <sub>2</sub>                | K                              |
| 11. | CuSO <sub>4</sub>              | O <sub>2</sub>    | Na                             | NaOH              | CO <sub>2</sub>                | HNO <sub>3</sub>               | CaCO <sub>3</sub>              | H <sub>2</sub> SO <sub>4</sub> |
| 12. | KOH                            | O <sub>2</sub>    | Au                             | NaOH              | CO <sub>2</sub>                | Na                             | H <sub>2</sub>                 | H <sub>2</sub> O               |
| 13. | CaCO <sub>3</sub>              | Cu                | CO <sub>2</sub>                | NaOH              | H <sub>2</sub> SO <sub>4</sub> | O <sub>2</sub>                 | Na                             | H <sub>2</sub>                 |
| 14. | CaCO <sub>3</sub>              | O <sub>2</sub>    | CuSO <sub>4</sub>              | CH <sub>4</sub>   | NaOH                           | Na                             | NH <sub>3</sub>                | H <sub>2</sub> O               |
| 15. | Na                             | O <sub>2</sub>    | CaCO <sub>3</sub>              | KOH               | NH <sub>3</sub>                | CuSO <sub>4</sub>              | H <sub>2</sub> O               | Au                             |
| 16. | CaCO <sub>3</sub>              | O <sub>2</sub>    | K                              | CH <sub>4</sub>   | NH <sub>3</sub>                | NaOH                           | Au                             | CuSO <sub>4</sub>              |
| 17. | CaCO <sub>3</sub>              | Au                | CH <sub>4</sub>                | H <sub>2</sub>    | H <sub>2</sub> O               | CO <sub>2</sub>                | Cu                             | CuSO <sub>4</sub>              |
| 18. | H <sub>2</sub>                 | CO <sub>2</sub>   | H <sub>2</sub> SO <sub>4</sub> | NaCl              | NH <sub>3</sub>                | Au                             | KOH                            | HNO <sub>3</sub>               |
| 19. | H <sub>2</sub> O <sub>2</sub>  | CuSO <sub>4</sub> | H <sub>2</sub> O               | K                 | NaOH                           | O <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | Na                             |
| 20. | N <sub>2</sub>                 | CuSO <sub>4</sub> | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>   | NaCl                           | CH <sub>4</sub>                | Na                             | KOH                            |

## Chemical Bingo - Student 26

|     |                                |                                |                                |                                |                                |                   |                               |                               |
|-----|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|-------------------------------|
| 1.  | Au                             | CH <sub>4</sub>                | HNO <sub>3</sub>               | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> O               | NH <sub>3</sub>   | KOH                           | H <sub>2</sub>                |
| 2.  | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> O               | CuSO <sub>4</sub>              | CaCO <sub>3</sub>              | K                 | N <sub>2</sub>                | Au                            |
| 3.  | O <sub>2</sub>                 | Cu                             | KOH                            | NaOH                           | CaCO <sub>3</sub>              | NaCl              | Au                            | HNO <sub>3</sub>              |
| 4.  | Au                             | K                              | CO <sub>2</sub>                | NaOH                           | NH <sub>3</sub>                | KOH               | N <sub>2</sub>                | CuSO <sub>4</sub>             |
| 5.  | NaCl                           | K                              | Na                             | HNO <sub>3</sub>               | H <sub>2</sub> O <sub>2</sub>  | O <sub>2</sub>    | Au                            | Cu                            |
| 6.  | HCl                            | KOH                            | O <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>              | N <sub>2</sub>    | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub>                |
| 7.  | CuSO <sub>4</sub>              | NaCl                           | K                              | HCl                            | CO <sub>2</sub>                | HNO <sub>3</sub>  | KOH                           | Au                            |
| 8.  | NaCl                           | H <sub>2</sub> O <sub>2</sub>  | CH <sub>4</sub>                | Au                             | HNO <sub>3</sub>               | O <sub>2</sub>    | Na                            | HCl                           |
| 9.  | NH <sub>3</sub>                | O <sub>2</sub>                 | CaCO <sub>3</sub>              | Au                             | N <sub>2</sub>                 | NaCl              | K                             | H <sub>2</sub> O              |
| 10. | H <sub>2</sub> O               | HNO <sub>3</sub>               | CuSO <sub>4</sub>              | KOH                            | Cu                             | NaOH              | H <sub>2</sub>                | HCl                           |
| 11. | CaCO <sub>3</sub>              | N <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 | CH <sub>4</sub>                | KOH               | NaCl                          | H <sub>2</sub> O <sub>2</sub> |
| 12. | CaCO <sub>3</sub>              | CuSO <sub>4</sub>              | K                              | CH <sub>4</sub>                | H <sub>2</sub> SO <sub>4</sub> | NaCl              | H <sub>2</sub> O <sub>2</sub> | NaOH                          |
| 13. | HCl                            | H <sub>2</sub> O               | CaCO <sub>3</sub>              | H <sub>2</sub>                 | NaOH                           | CuSO <sub>4</sub> | N <sub>2</sub>                | NaCl                          |
| 14. | NaCl                           | H <sub>2</sub> SO <sub>4</sub> | KOH                            | O <sub>2</sub>                 | NaOH                           | HCl               | Au                            | H <sub>2</sub> O              |
| 15. | NaOH                           | K                              | CaCO <sub>3</sub>              | CuSO <sub>4</sub>              | CH <sub>4</sub>                | H <sub>2</sub> O  | HCl                           | HNO <sub>3</sub>              |
| 16. | NaCl                           | H <sub>2</sub> O <sub>2</sub>  | N <sub>2</sub>                 | HCl                            | CO <sub>2</sub>                | HNO <sub>3</sub>  | O <sub>2</sub>                | Au                            |
| 17. | HNO <sub>3</sub>               | CH <sub>4</sub>                | CuSO <sub>4</sub>              | O <sub>2</sub>                 | KOH                            | Au                | NaOH                          | NH <sub>3</sub>               |
| 18. | CH <sub>4</sub>                | KOH                            | H <sub>2</sub> O               | HCl                            | K                              | Au                | CuSO <sub>4</sub>             | NaOH                          |
| 19. | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 | Na                             | KOH                            | H <sub>2</sub> O               | NaOH              | NaCl                          | HNO <sub>3</sub>              |
| 20. | Au                             | NaOH                           | Na                             | Cu                             | H <sub>2</sub> O               | H <sub>2</sub>    | NH <sub>3</sub>               | CO <sub>2</sub>               |

## Chemical Bingo - Student 27

|                                    |                               |                                |                               |                                |                                |                                |                                |
|------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 1. HCl                             | CH <sub>4</sub>               | H <sub>2</sub> SO <sub>4</sub> | CuSO <sub>4</sub>             | NaCl                           | KOH                            | H <sub>2</sub> O <sub>2</sub>  | N <sub>2</sub>                 |
| 2. NaOH                            | CuSO <sub>4</sub>             | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> O              | HCl                            | K                              | H <sub>2</sub> SO <sub>4</sub> | O <sub>2</sub>                 |
| 3. KOH                             | CaCO <sub>3</sub>             | N <sub>2</sub>                 | HCl                           | H <sub>2</sub>                 | CO <sub>2</sub>                | Cu                             | NaOH                           |
| 4. CO <sub>2</sub>                 | CuSO <sub>4</sub>             | H <sub>2</sub> O <sub>2</sub>  | NH <sub>3</sub>               | Au                             | Na                             | H <sub>2</sub>                 | NaCl                           |
| 5. H <sub>2</sub> SO <sub>4</sub>  | Na                            | HCl                            | HNO <sub>3</sub>              | NH <sub>3</sub>                | NaOH                           | CaCO <sub>3</sub>              | H <sub>2</sub>                 |
| 6. H <sub>2</sub> O                | NH <sub>3</sub>               | HNO <sub>3</sub>               | CO <sub>2</sub>               | CH <sub>4</sub>                | K                              | NaOH                           | Au                             |
| 7. O <sub>2</sub>                  | Cu                            | N <sub>2</sub>                 | NaCl                          | CO <sub>2</sub>                | CaCO <sub>3</sub>              | NaOH                           | Na                             |
| 8. CaCO <sub>3</sub>               | Na                            | Cu                             | H <sub>2</sub>                | NaOH                           | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>                | N <sub>2</sub>                 |
| 9. H <sub>2</sub>                  | HNO <sub>3</sub>              | NaCl                           | CO <sub>2</sub>               | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> O               | CH <sub>4</sub>                | H <sub>2</sub> SO <sub>4</sub> |
| 10. H <sub>2</sub>                 | Cu                            | NaCl                           | CuSO <sub>4</sub>             | KOH                            | CH <sub>4</sub>                | Na                             | CaCO <sub>3</sub>              |
| 11. HNO <sub>3</sub>               | CO <sub>2</sub>               | Na                             | CuSO <sub>4</sub>             | H <sub>2</sub> SO <sub>4</sub> | CH <sub>4</sub>                | N <sub>2</sub>                 | H <sub>2</sub>                 |
| 12. NaCl                           | K                             | Au                             | H <sub>2</sub> O <sub>2</sub> | HCl                            | H <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                 |
| 13. CH <sub>4</sub>                | NH <sub>3</sub>               | KOH                            | H <sub>2</sub> O              | H <sub>2</sub> O <sub>2</sub>  | CuSO <sub>4</sub>              | NaOH                           | H <sub>2</sub> SO <sub>4</sub> |
| 14. H <sub>2</sub> SO <sub>4</sub> | NaOH                          | HCl                            | KOH                           | Cu                             | O <sub>2</sub>                 | NH <sub>3</sub>                | CuSO <sub>4</sub>              |
| 15. NaCl                           | HNO <sub>3</sub>              | Cu                             | H <sub>2</sub>                | Au                             | CaCO <sub>3</sub>              | Na                             | H <sub>2</sub> O <sub>2</sub>  |
| 16. CO <sub>2</sub>                | H <sub>2</sub>                | HNO <sub>3</sub>               | N <sub>2</sub>                | NaCl                           | H <sub>2</sub> O <sub>2</sub>  | NH <sub>3</sub>                | Au                             |
| 17. CH <sub>4</sub>                | Na                            | CaCO <sub>3</sub>              | Au                            | CuSO <sub>4</sub>              | H <sub>2</sub>                 | NaOH                           | KOH                            |
| 18. NaOH                           | H <sub>2</sub> O <sub>2</sub> | HCl                            | KOH                           | CO <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | K                              | CuSO <sub>4</sub>              |
| 19. H <sub>2</sub> SO <sub>4</sub> | NaCl                          | H <sub>2</sub> O <sub>2</sub>  | Cu                            | K                              | HNO <sub>3</sub>               | CH <sub>4</sub>                | NH <sub>3</sub>                |
| 20. CuSO <sub>4</sub>              | CaCO <sub>3</sub>             | H <sub>2</sub> O <sub>2</sub>  | CO <sub>2</sub>               | NaCl                           | CH <sub>4</sub>                | O <sub>2</sub>                 | HCl                            |

## Chemical Bingo - Student 28

|     |                                |                               |                                |                   |                                |                                |                   |                               |
|-----|--------------------------------|-------------------------------|--------------------------------|-------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| 1.  | CuSO <sub>4</sub>              | N <sub>2</sub>                | H <sub>2</sub>                 | Cu                | HNO <sub>3</sub>               | Na                             | NaCl              | NH <sub>3</sub>               |
| 2.  | CaCO <sub>3</sub>              | HNO <sub>3</sub>              | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub>    | O <sub>2</sub>                 | Na                             | CO <sub>2</sub>   | CH <sub>4</sub>               |
| 3.  | H <sub>2</sub> O <sub>2</sub>  | H <sub>2</sub> O              | Cu                             | CO <sub>2</sub>   | CuSO <sub>4</sub>              | NaOH                           | NH <sub>3</sub>   | Na                            |
| 4.  | O <sub>2</sub>                 | NaCl                          | CuSO <sub>4</sub>              | CO <sub>2</sub>   | N <sub>2</sub>                 | HNO <sub>3</sub>               | CH <sub>4</sub>   | CaCO <sub>3</sub>             |
| 5.  | H <sub>2</sub>                 | CO <sub>2</sub>               | Cu                             | NaOH              | N <sub>2</sub>                 | HNO <sub>3</sub>               | NH <sub>3</sub>   | Na                            |
| 6.  | HCl                            | Cu                            | NaCl                           | Au                | CaCO <sub>3</sub>              | KOH                            | CO <sub>2</sub>   | H <sub>2</sub> O <sub>2</sub> |
| 7.  | HCl                            | CaCO <sub>3</sub>             | H <sub>2</sub>                 | Na                | H <sub>2</sub> SO <sub>4</sub> | O <sub>2</sub>                 | CH <sub>4</sub>   | H <sub>2</sub> O <sub>2</sub> |
| 8.  | CH <sub>4</sub>                | HNO <sub>3</sub>              | CaCO <sub>3</sub>              | KOH               | H <sub>2</sub> O               | Au                             | NaOH              | K                             |
| 9.  | Na                             | CO <sub>2</sub>               | K                              | HNO <sub>3</sub>  | CuSO <sub>4</sub>              | NH <sub>3</sub>                | NaOH              | H <sub>2</sub> O              |
| 10. | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O <sub>2</sub> | Na                             | NaCl              | CH <sub>4</sub>                | CO <sub>2</sub>                | H <sub>2</sub>    | NaOH                          |
| 11. | CH <sub>4</sub>                | KOH                           | H <sub>2</sub> SO <sub>4</sub> | Cu                | N <sub>2</sub>                 | CO <sub>2</sub>                | NH <sub>3</sub>   | NaCl                          |
| 12. | H <sub>2</sub> SO <sub>4</sub> | HCl                           | N <sub>2</sub>                 | CaCO <sub>3</sub> | NH <sub>3</sub>                | CO <sub>2</sub>                | H <sub>2</sub>    | Na                            |
| 13. | H <sub>2</sub> O <sub>2</sub>  | CO <sub>2</sub>               | O <sub>2</sub>                 | CaCO <sub>3</sub> | N <sub>2</sub>                 | Cu                             | K                 | Na                            |
| 14. | Na                             | NaCl                          | O <sub>2</sub>                 | N <sub>2</sub>    | CO <sub>2</sub>                | H <sub>2</sub>                 | NH <sub>3</sub>   | HNO <sub>3</sub>              |
| 15. | NaCl                           | H <sub>2</sub> O <sub>2</sub> | Cu                             | HNO <sub>3</sub>  | KOH                            | CaCO <sub>3</sub>              | CuSO <sub>4</sub> | NH <sub>3</sub>               |
| 16. | HNO <sub>3</sub>               | NaCl                          | K                              | Na                | H <sub>2</sub> O               | H <sub>2</sub>                 | CaCO <sub>3</sub> | Cu                            |
| 17. | NaCl                           | KOH                           | O <sub>2</sub>                 | Na                | CH <sub>4</sub>                | N <sub>2</sub>                 | H <sub>2</sub>    | NH <sub>3</sub>               |
| 18. | H <sub>2</sub> O <sub>2</sub>  | HNO <sub>3</sub>              | CuSO <sub>4</sub>              | CaCO <sub>3</sub> | Na                             | N <sub>2</sub>                 | K                 | NaCl                          |
| 19. | CaCO <sub>3</sub>              | Na                            | Au                             | CH <sub>4</sub>   | CO <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>    | NaCl                          |
| 20. | CH <sub>4</sub>                | CO <sub>2</sub>               | KOH                            | Au                | O <sub>2</sub>                 | H <sub>2</sub>                 | HCl               | HNO <sub>3</sub>              |

## Chemical Bingo - Student 29

|     |                                |                               |                                |                                |                                |                               |                                |                                |
|-----|--------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|
| 1.  | CuSO <sub>4</sub>              | H <sub>2</sub> O <sub>2</sub> | K                              | HCl                            | Na                             | NaCl                          | NaOH                           | H <sub>2</sub> SO <sub>4</sub> |
| 2.  | NH <sub>3</sub>                | N <sub>2</sub>                | Na                             | CuSO <sub>4</sub>              | CO <sub>2</sub>                | Au                            | O <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub>  |
| 3.  | NaCl                           | O <sub>2</sub>                | HCl                            | NaOH                           | HNO <sub>3</sub>               | CH <sub>4</sub>               | N <sub>2</sub>                 | CO <sub>2</sub>                |
| 4.  | O <sub>2</sub>                 | CuSO <sub>4</sub>             | N <sub>2</sub>                 | HCl                            | Au                             | CaCO <sub>3</sub>             | CH <sub>4</sub>                | CO <sub>2</sub>                |
| 5.  | CH <sub>4</sub>                | KOH                           | H <sub>2</sub> O               | CuSO <sub>4</sub>              | HNO <sub>3</sub>               | H <sub>2</sub>                | NaCl                           | HCl                            |
| 6.  | NH <sub>3</sub>                | CaCO <sub>3</sub>             | H <sub>2</sub> SO <sub>4</sub> | NaCl                           | N <sub>2</sub>                 | CH <sub>4</sub>               | H <sub>2</sub> O               | Cu                             |
| 7.  | KOH                            | H <sub>2</sub> O              | CaCO <sub>3</sub>              | HCl                            | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>               | CO <sub>2</sub>                | H <sub>2</sub>                 |
| 8.  | HNO <sub>3</sub>               | H <sub>2</sub> O              | H <sub>2</sub> SO <sub>4</sub> | NaCl                           | HCl                            | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub>                 | Na                             |
| 9.  | Cu                             | CaCO <sub>3</sub>             | N <sub>2</sub>                 | H <sub>2</sub> SO <sub>4</sub> | K                              | CO <sub>2</sub>               | H <sub>2</sub>                 | NH <sub>3</sub>                |
| 10. | K                              | Au                            | H <sub>2</sub>                 | H <sub>2</sub> O               | NH <sub>3</sub>                | Na                            | Cu                             | O <sub>2</sub>                 |
| 11. | K                              | Au                            | H <sub>2</sub>                 | NaOH                           | HNO <sub>3</sub>               | NaCl                          | Na                             | NH <sub>3</sub>                |
| 12. | Au                             | O <sub>2</sub>                | H <sub>2</sub> O               | CO <sub>2</sub>                | Cu                             | H <sub>2</sub>                | H <sub>2</sub> O <sub>2</sub>  | CaCO <sub>3</sub>              |
| 13. | H <sub>2</sub> O <sub>2</sub>  | NaOH                          | HCl                            | K                              | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>               | KOH                            | CuSO <sub>4</sub>              |
| 14. | KOH                            | NH <sub>3</sub>               | Na                             | CuSO <sub>4</sub>              | HNO <sub>3</sub>               | H <sub>2</sub>                | N <sub>2</sub>                 | H <sub>2</sub> O               |
| 15. | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                | CuSO <sub>4</sub>              | CO <sub>2</sub>                | Cu                             | CH <sub>4</sub>               | NaCl                           | N <sub>2</sub>                 |
| 16. | CO <sub>2</sub>                | CuSO <sub>4</sub>             | CH <sub>4</sub>                | H <sub>2</sub> O <sub>2</sub>  | NH <sub>3</sub>                | O <sub>2</sub>                | N <sub>2</sub>                 | Na                             |
| 17. | H <sub>2</sub> SO <sub>4</sub> | NH <sub>3</sub>               | NaOH                           | Au                             | CH <sub>4</sub>                | H <sub>2</sub> O <sub>2</sub> | CuSO <sub>4</sub>              | NaCl                           |
| 18. | Cu                             | KOH                           | Na                             | H <sub>2</sub> SO <sub>4</sub> | CaCO <sub>3</sub>              | H <sub>2</sub> O <sub>2</sub> | NH <sub>3</sub>                | N <sub>2</sub>                 |
| 19. | NaOH                           | CaCO <sub>3</sub>             | H <sub>2</sub> O <sub>2</sub>  | HCl                            | Cu                             | KOH                           | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub>                 |
| 20. | Cu                             | NaOH                          | H <sub>2</sub>                 | H <sub>2</sub> O <sub>2</sub>  | CO <sub>2</sub>                | K                             | NH <sub>3</sub>                | CH <sub>4</sub>                |

### Chemical Bingo - Student 30

|                                   |                               |                               |                               |                                |                                |                               |                                |
|-----------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|
| 1. NaCl                           | K                             | NH <sub>3</sub>               | N <sub>2</sub>                | H <sub>2</sub> O               | NaOH                           | HNO <sub>3</sub>              | KOH                            |
| 2. H <sub>2</sub> SO <sub>4</sub> | NaCl                          | HCl                           | K                             | O <sub>2</sub>                 | HNO <sub>3</sub>               | CH <sub>4</sub>               | H <sub>2</sub> O               |
| 3. Cu                             | H <sub>2</sub> O <sub>2</sub> | CuSO <sub>4</sub>             | CaCO <sub>3</sub>             | H <sub>2</sub> O               | NaCl                           | Na                            | H <sub>2</sub> SO <sub>4</sub> |
| 4. HNO <sub>3</sub>               | H <sub>2</sub> O <sub>2</sub> | CH <sub>4</sub>               | NaOH                          | H <sub>2</sub> O               | HCl                            | CaCO <sub>3</sub>             | Au                             |
| 5. Na                             | CO <sub>2</sub>               | H <sub>2</sub> O <sub>2</sub> | H <sub>2</sub>                | NaCl                           | HCl                            | Cu                            | Au                             |
| 6. O <sub>2</sub>                 | N <sub>2</sub>                | H <sub>2</sub>                | Cu                            | NaCl                           | CuSO <sub>4</sub>              | K                             | Au                             |
| 7. N <sub>2</sub>                 | H <sub>2</sub>                | CH <sub>4</sub>               | CO <sub>2</sub>               | CaCO <sub>3</sub>              | NaCl                           | Cu                            | H <sub>2</sub> O <sub>2</sub>  |
| 8. N <sub>2</sub>                 | K                             | H <sub>2</sub>                | CaCO <sub>3</sub>             | CO <sub>2</sub>                | CuSO <sub>4</sub>              | O <sub>2</sub>                | H <sub>2</sub> O               |
| 9. NaCl                           | KOH                           | H <sub>2</sub> O <sub>2</sub> | CuSO <sub>4</sub>             | N <sub>2</sub>                 | HNO <sub>3</sub>               | CaCO <sub>3</sub>             | NaOH                           |
| 10. H <sub>2</sub>                | Cu                            | H <sub>2</sub> O <sub>2</sub> | NaOH                          | Au                             | NH <sub>3</sub>                | H <sub>2</sub> O              | CH <sub>4</sub>                |
| 11. KOH                           | HNO <sub>3</sub>              | CH <sub>4</sub>               | H <sub>2</sub> O <sub>2</sub> | Au                             | N <sub>2</sub>                 | Na                            | HCl                            |
| 12. HNO <sub>3</sub>              | NaCl                          | Cu                            | CuSO <sub>4</sub>             | CO <sub>2</sub>                | H <sub>2</sub> SO <sub>4</sub> | H <sub>2</sub> O              | N <sub>2</sub>                 |
| 13. HCl                           | NH <sub>3</sub>               | CaCO <sub>3</sub>             | H <sub>2</sub>                | Na                             | Au                             | H <sub>2</sub> O <sub>2</sub> | CO <sub>2</sub>                |
| 14. H <sub>2</sub>                | CaCO <sub>3</sub>             | Au                            | CH <sub>4</sub>               | CO <sub>2</sub>                | HCl                            | NH <sub>3</sub>               | Cu                             |
| 15. NaOH                          | KOH                           | H <sub>2</sub>                | CO <sub>2</sub>               | NaCl                           | HNO <sub>3</sub>               | CH <sub>4</sub>               | HCl                            |
| 16. NaCl                          | NH <sub>3</sub>               | N <sub>2</sub>                | CH <sub>4</sub>               | H <sub>2</sub> SO <sub>4</sub> | CO <sub>2</sub>                | CaCO <sub>3</sub>             | K                              |
| 17. CH <sub>4</sub>               | NaOH                          | HCl                           | H <sub>2</sub> O <sub>2</sub> | NaCl                           | CO <sub>2</sub>                | Na                            | CuSO <sub>4</sub>              |
| 18. CuSO <sub>4</sub>             | O <sub>2</sub>                | CH <sub>4</sub>               | CO <sub>2</sub>               | NH <sub>3</sub>                | H <sub>2</sub> SO <sub>4</sub> | Na                            | HNO <sub>3</sub>               |
| 19. Na                            | Au                            | CuSO <sub>4</sub>             | H <sub>2</sub> O              | NaCl                           | H <sub>2</sub> SO <sub>4</sub> | N <sub>2</sub>                | H <sub>2</sub>                 |
| 20. O <sub>2</sub>                | NaOH                          | CH <sub>4</sub>               | Cu                            | K                              | NaCl                           | Na                            | Au                             |

## Chemical Bingo Calls - Teacher

1. Nitrogen gas, Hydrochloric acid, Oxygen gas, Calcium carbonate, Hydrogen gas, Gold, Copper, Potassium, Copper sulfate, Sodium, Sodium hydroxide, water, Nitric acid, Methane, Sulfuric acid, potassium hydroxide, Ammonia, Carbon dioxide, Sodium chloride, Hydrogen peroxide  
 $N_2$ , HCl,  $O_2$ ,  $CaCO_3$ ,  $H_2$ , Au, Cu, K,  $CuSO_4$ , Na, NaOH,  $H_2O$ ,  $HNO_3$ ,  $CH_4$ ,  $H_2SO_4$ , KOH,  $NH_3$ ,  $CO_2$ , NaCl,  $H_2O_2$
2. water, Sodium hydroxide, Copper, Nitric acid, Hydrogen peroxide, Hydrochloric acid, Sodium, Oxygen gas, Potassium, Hydrogen gas, Sulfuric acid, potassium hydroxide, Methane, Nitrogen gas, Gold, Calcium carbonate, Carbon dioxide, Sodium chloride, Ammonia, Copper sulfate  
 $H_2O$ , NaOH, Cu,  $HNO_3$ ,  $H_2O_2$ , HCl, Na,  $O_2$ , K,  $H_2$ ,  $H_2SO_4$ , KOH,  $CH_4$ ,  $N_2$ , Au,  $CaCO_3$ ,  $CO_2$ , NaCl,  $NH_3$ ,  $CuSO_4$
3. Gold, Ammonia, Copper sulfate, Hydrogen gas, Calcium carbonate, Nitrogen gas, Sulfuric acid, Oxygen gas, Potassium, potassium hydroxide, Hydrochloric acid, Methane, Copper, Hydrogen peroxide, Nitric acid, Carbon dioxide, Sodium chloride, Sodium, Sodium hydroxide, water  
Au,  $NH_3$ ,  $CuSO_4$ ,  $H_2$ ,  $CaCO_3$ ,  $N_2$ ,  $H_2SO_4$ ,  $O_2$ , K, KOH, HCl,  $CH_4$ , Cu,  $H_2O_2$ ,  $HNO_3$ ,  $CO_2$ , NaCl, Na, NaOH,  $H_2O$
4. Gold, Sulfuric acid, Methane, Hydrogen gas, Calcium carbonate, Hydrogen peroxide, Copper, potassium hydroxide, Oxygen gas, Sodium hydroxide, Hydrochloric acid, Ammonia, Nitric acid, Sodium, Potassium, Copper sulfate, Nitrogen gas, Carbon dioxide, water, Sodium chloride  
Au,  $H_2SO_4$ ,  $CH_4$ ,  $H_2$ ,  $CaCO_3$ ,  $H_2O_2$ , Cu, KOH,  $O_2$ , NaOH, HCl,  $NH_3$ ,  $HNO_3$ , Na, K,  $CuSO_4$ ,  $N_2$ ,  $CO_2$ ,  $H_2O$ , NaCl
5. Oxygen gas, Copper sulfate, Hydrogen peroxide, Potassium, Sulfuric acid, Hydrogen gas, Methane, Sodium, Calcium carbonate, Nitric acid, Copper, Nitrogen gas, water, Sodium hydroxide, Hydrochloric acid, Gold, potassium hydroxide, Sodium chloride, Ammonia, Carbon dioxide  
 $O_2$ ,  $CuSO_4$ ,  $H_2O_2$ , K,  $H_2SO_4$ ,  $H_2$ ,  $CH_4$ , Na,  $CaCO_3$ ,  $HNO_3$ , Cu,  $N_2$ ,  $H_2O$ , NaOH, HCl, Au, KOH, NaCl,  $NH_3$ ,  $CO_2$
6. Gold, Hydrogen gas, Potassium, potassium hydroxide, Hydrogen peroxide, Hydrochloric acid, Copper sulfate, Copper, Sodium, water, Calcium carbonate, Sodium hydroxide, Nitrogen gas, Nitric acid, Sulfuric acid, Carbon dioxide, Sodium chloride, Oxygen gas, Ammonia, Methane  
Au,  $H_2$ , K, KOH,  $H_2O_2$ , HCl,  $CuSO_4$ , Cu, Na,  $H_2O$ ,  $CaCO_3$ , NaOH,  $N_2$ ,  $HNO_3$ ,  $H_2SO_4$ ,  $CO_2$ , NaCl,  $O_2$ ,  $NH_3$ ,  $CH_4$
7. potassium hydroxide, Copper sulfate, Sulfuric acid, Methane, Nitric acid, Calcium carbonate, Hydrochloric acid, Carbon dioxide, Sodium chloride, Oxygen gas, Sodium, Hydrogen gas, Nitrogen gas, Gold, Copper, Potassium, water, Hydrogen peroxide, Ammonia, Sodium hydroxide  
KOH,  $CuSO_4$ ,  $H_2SO_4$ ,  $CH_4$ ,  $HNO_3$ ,  $CaCO_3$ , HCl,  $CO_2$ , NaCl,  $O_2$ , Na,  $H_2$ ,  $N_2$ , Au, Cu, K,  $H_2O$ ,  $H_2O_2$ ,  $NH_3$ , NaOH
8. Sodium, potassium hydroxide, Hydrochloric acid, Oxygen gas, Carbon dioxide, Potassium, Gold, Hydrogen gas, Ammonia, Methane, Sulfuric acid, Nitrogen gas, Copper, Sodium hydroxide, Nitric acid, Calcium carbonate, Hydrogen peroxide, water, Copper sulfate, Sodium chloride  
Na, KOH, HCl,  $O_2$ ,  $CO_2$ , K, Au,  $H_2$ ,  $NH_3$ ,  $CH_4$ ,  $H_2SO_4$ ,  $N_2$ , Cu, NaOH,  $HNO_3$ ,  $CaCO_3$ ,  $H_2O_2$ ,  $H_2O$ ,  $CuSO_4$ , NaCl
9. Ammonia, Oxygen gas, water, Nitric acid, Sodium, Hydrogen gas, Potassium, Copper, Methane, Calcium carbonate, Hydrochloric acid, Copper sulfate, potassium hydroxide, Sodium chloride, Sulfuric acid, Carbon dioxide, Nitrogen gas, Hydrogen peroxide, Gold, Sodium hydroxide  
 $NH_3$ ,  $O_2$ ,  $H_2O$ ,  $HNO_3$ , Na,  $H_2$ , K, Cu,  $CH_4$ ,  $CaCO_3$ , HCl,  $CuSO_4$ , KOH, NaCl,  $H_2SO_4$ ,  $CO_2$ ,  $N_2$ ,  $H_2O_2$ , Au, NaOH
10. Calcium carbonate, Hydrogen gas, Potassium, Sodium hydroxide, Ammonia, Sodium, Nitric acid, Copper, Hydrogen peroxide, Gold, Oxygen gas, Methane, Hydrochloric acid, water, Copper sulfate, potassium hydroxide, Sodium chloride, Carbon dioxide, Sulfuric acid, Nitrogen gas  
 $CaCO_3$ ,  $H_2$ , K, NaOH,  $NH_3$ , Na,  $HNO_3$ , Cu,  $H_2O_2$ , Au,  $O_2$ ,  $CH_4$ , HCl,  $H_2O$ ,  $CuSO_4$ , KOH, NaCl,  $CO_2$ ,  $H_2SO_4$ ,  $N_2$
11. water, potassium hydroxide, Calcium carbonate, Hydrogen gas, Nitrogen gas, Gold, Copper, Nitric acid, Hydrogen peroxide, Carbon dioxide, Sodium chloride, Potassium, Copper sulfate, Sodium hydroxide, Hydrochloric acid, Ammonia, Sulfuric acid, Methane, Sodium, Oxygen gas  
 $H_2O$ , KOH,  $CaCO_3$ ,  $H_2$ ,  $N_2$ , Au, Cu,  $HNO_3$ ,  $H_2O_2$ ,  $CO_2$ , NaCl, K,  $CuSO_4$ , NaOH, HCl,  $NH_3$ ,  $H_2SO_4$ ,  $CH_4$ , Na,  $O_2$
12. Nitric acid, potassium hydroxide, Copper, Oxygen gas, Sulfuric acid, Sodium hydroxide, Hydrochloric acid, water, Sodium, Potassium, Hydrogen gas, Methane, Ammonia, Calcium carbonate,

Copper sulfate, Gold, Hydrogen peroxide, Sodium chloride, Carbon dioxide, Nitrogen gas  
 $\text{HNO}_3$ ,  $\text{KOH}$ ,  $\text{Cu}$ ,  $\text{O}_2$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{NaOH}$ ,  $\text{HCl}$ ,  $\text{H}_2\text{O}$ ,  $\text{Na}$ ,  $\text{K}$ ,  $\text{H}_2$ ,  $\text{CH}_4$ ,  $\text{NH}_3$ ,  $\text{CaCO}_3$ ,  $\text{CuSO}_4$ ,  $\text{Au}$ ,  $\text{H}_2\text{O}_2$ ,  $\text{NaCl}$ ,  $\text{CO}_2$ ,  $\text{N}_2$

13. Potassium, Methane, Hydrochloric acid, Nitric acid, Sodium chloride, Sodium hydroxide, Hydrogen gas, Sodium, Sulfuric acid, Calcium carbonate, Ammonia, Gold, Carbon dioxide, water, Nitrogen gas, Copper sulfate, Oxygen gas, Hydrogen peroxide, Copper, potassium hydroxide  
 $\text{K}$ ,  $\text{CH}_4$ ,  $\text{HCl}$ ,  $\text{HNO}_3$ ,  $\text{NaCl}$ ,  $\text{NaOH}$ ,  $\text{H}_2$ ,  $\text{Na}$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{CaCO}_3$ ,  $\text{NH}_3$ ,  $\text{Au}$ ,  $\text{CO}_2$ ,  $\text{H}_2\text{O}$ ,  $\text{N}_2$ ,  $\text{CuSO}_4$ ,  $\text{O}_2$ ,  $\text{H}_2\text{O}_2$ ,  $\text{Cu}$ ,  $\text{KOH}$

14. Nitrogen gas, Nitric acid, water, Hydrogen gas, Hydrochloric acid, Carbon dioxide, Sodium hydroxide, Calcium carbonate, potassium hydroxide, Potassium, Sulfuric acid, Ammonia, Gold, Copper sulfate, Methane, Oxygen gas, Sodium, Copper, Sodium chloride, Hydrogen peroxide  
 $\text{N}_2$ ,  $\text{HNO}_3$ ,  $\text{H}_2\text{O}$ ,  $\text{H}_2$ ,  $\text{HCl}$ ,  $\text{CO}_2$ ,  $\text{NaOH}$ ,  $\text{CaCO}_3$ ,  $\text{KOH}$ ,  $\text{K}$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{NH}_3$ ,  $\text{Au}$ ,  $\text{CuSO}_4$ ,  $\text{CH}_4$ ,  $\text{O}_2$ ,  $\text{Na}$ ,  $\text{Cu}$ ,  $\text{NaCl}$ ,  $\text{H}_2\text{O}_2$

15. Oxygen gas, Potassium, Ammonia, Copper, Copper sulfate, Nitrogen gas, potassium hydroxide, Hydrogen gas, Gold, Sodium, Nitric acid, Sulfuric acid, Sodium chloride, Methane, Carbon dioxide, Hydrochloric acid, Sodium hydroxide, Hydrogen peroxide, water, Calcium carbonate  
 $\text{O}_2$ ,  $\text{K}$ ,  $\text{NH}_3$ ,  $\text{Cu}$ ,  $\text{CuSO}_4$ ,  $\text{N}_2$ ,  $\text{KOH}$ ,  $\text{H}_2$ ,  $\text{Au}$ ,  $\text{Na}$ ,  $\text{HNO}_3$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{NaCl}$ ,  $\text{CH}_4$ ,  $\text{CO}_2$ ,  $\text{HCl}$ ,  $\text{NaOH}$ ,  $\text{H}_2\text{O}_2$ ,  $\text{H}_2\text{O}$ ,  $\text{CaCO}_3$

16. Ammonia, Nitric acid, Gold, Hydrogen peroxide, Sodium hydroxide, Copper, Nitrogen gas, Hydrogen gas, Hydrochloric acid, Calcium carbonate, potassium hydroxide, Oxygen gas, Copper sulfate, Potassium, Sodium chloride, water, Methane, Sodium, Carbon dioxide, Sulfuric acid  
 $\text{NH}_3$ ,  $\text{HNO}_3$ ,  $\text{Au}$ ,  $\text{H}_2\text{O}_2$ ,  $\text{NaOH}$ ,  $\text{Cu}$ ,  $\text{N}_2$ ,  $\text{H}_2$ ,  $\text{HCl}$ ,  $\text{CaCO}_3$ ,  $\text{KOH}$ ,  $\text{O}_2$ ,  $\text{CuSO}_4$ ,  $\text{K}$ ,  $\text{NaCl}$ ,  $\text{H}_2\text{O}$ ,  $\text{CH}_4$ ,  $\text{Na}$ ,  $\text{CO}_2$ ,  $\text{H}_2\text{SO}_4$

17. Hydrogen gas, Sodium, Sulfuric acid, Sodium chloride, Potassium, Nitric acid, Hydrochloric acid, Methane, Copper sulfate, Sodium hydroxide, Ammonia, Calcium carbonate, Carbon dioxide, Nitrogen gas, Copper, potassium hydroxide, water, Oxygen gas, Gold, Hydrogen peroxide  
 $\text{H}_2$ ,  $\text{Na}$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{NaCl}$ ,  $\text{K}$ ,  $\text{HNO}_3$ ,  $\text{HCl}$ ,  $\text{CH}_4$ ,  $\text{CuSO}_4$ ,  $\text{NaOH}$ ,  $\text{NH}_3$ ,  $\text{CaCO}_3$ ,  $\text{CO}_2$ ,  $\text{N}_2$ ,  $\text{Cu}$ ,  $\text{KOH}$ ,  $\text{H}_2\text{O}$ ,  $\text{O}_2$ ,  $\text{Au}$ ,  $\text{H}_2\text{O}_2$

18. Ammonia, Oxygen gas, water, potassium hydroxide, Potassium, Sodium, Calcium carbonate, Carbon dioxide, Hydrogen peroxide, Copper, Methane, Hydrogen gas, Sodium hydroxide, Sulfuric acid, Gold, Nitrogen gas, Copper sulfate, Hydrochloric acid, Sodium chloride, Nitric acid  
 $\text{NH}_3$ ,  $\text{O}_2$ ,  $\text{H}_2\text{O}$ ,  $\text{KOH}$ ,  $\text{K}$ ,  $\text{Na}$ ,  $\text{CaCO}_3$ ,  $\text{CO}_2$ ,  $\text{H}_2\text{O}_2$ ,  $\text{Cu}$ ,  $\text{CH}_4$ ,  $\text{H}_2$ ,  $\text{NaOH}$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{Au}$ ,  $\text{N}_2$ ,  $\text{CuSO}_4$ ,  $\text{HCl}$ ,  $\text{NaCl}$ ,  $\text{HNO}_3$

19. Nitrogen gas, Copper, water, Sulfuric acid, Calcium carbonate, Sodium, Hydrogen peroxide, Gold, Sodium chloride, Oxygen gas, Methane, Ammonia, Copper sulfate, potassium hydroxide, Nitric acid, Hydrochloric acid, Potassium, Carbon dioxide, Sodium hydroxide, Hydrogen gas  
 $\text{N}_2$ ,  $\text{Cu}$ ,  $\text{H}_2\text{O}$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{CaCO}_3$ ,  $\text{Na}$ ,  $\text{H}_2\text{O}_2$ ,  $\text{Au}$ ,  $\text{NaCl}$ ,  $\text{O}_2$ ,  $\text{CH}_4$ ,  $\text{NH}_3$ ,  $\text{CuSO}_4$ ,  $\text{KOH}$ ,  $\text{HNO}_3$ ,  $\text{HCl}$ ,  $\text{K}$ ,  $\text{CO}_2$ ,  $\text{NaOH}$ ,  $\text{H}_2$

20. Sulfuric acid, potassium hydroxide, Hydrogen gas, Methane, Sodium hydroxide, Calcium carbonate, Hydrogen peroxide, Hydrochloric acid, Oxygen gas, Nitrogen gas, Ammonia, water, Sodium chloride, Sodium, Copper sulfate, Potassium, Gold, Carbon dioxide, Nitric acid, Copper  
 $\text{H}_2\text{SO}_4$ ,  $\text{KOH}$ ,  $\text{H}_2$ ,  $\text{CH}_4$ ,  $\text{NaOH}$ ,  $\text{CaCO}_3$ ,  $\text{H}_2\text{O}_2$ ,  $\text{HCl}$ ,  $\text{O}_2$ ,  $\text{N}_2$ ,  $\text{NH}_3$ ,  $\text{H}_2\text{O}$ ,  $\text{NaCl}$ ,  $\text{Na}$ ,  $\text{CuSO}_4$ ,  $\text{K}$ ,  $\text{Au}$ ,  $\text{CO}_2$ ,  $\text{HNO}_3$ ,  $\text{Cu}$