***Virtual Lab: Types of Chemical Reactions***

Find the Link on Moodle for “Virtual Lab: Types of Chemical Reactions”, or go to youtube and type in “5 Types of Chemical Reactions Lab” and click on the first link, or type in the following website: <https://www.youtube.com/watch?v=nsEkKIiOz7Q>

Watch the video and follow along on your worksheet as you go.

* Observations before Reaction: What do you think is going to happen?
* Observations after reaction: What did you see happen?
* Word equation: write the reaction out in words
* Skeleton equation: write the reaction out using chemical formulas (not balance)
* Balanced equation: write the complete balanced equation with chemical formulas

1. Type of Reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Observations Before Reaction | Observations After Reaction |
|  |  |

Word Equation:

Skeleton Equation:

Balanced Equation:

2. Type of Reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Observations Before Reaction | Observations After Reaction |
|  |  |

Word Equation:

Skeleton Equation:

Balanced Equation:

3. Type of Reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Observations Before Reaction | Observations After Reaction |
|  |  |

Word Equation:

Skeleton Equation:

Balanced Equation:

4. Type of Reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Observations Before Reaction | Observations After Reaction |
|  |  |

Word Equation:

Skeleton Equation:

Balanced Equation:

5. Type of Reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Observations Before Reaction | Observations After Reaction |
|  |  |

Word Equation:

Skeleton Equation:

Balanced Equation:

Questions: Balance the equation and state the type of reaction

1. \_\_\_\_\_Na + \_\_\_\_\_HOH → \_\_\_\_\_\_NaOH + \_\_\_\_\_\_H2 Type of Reaction\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_Fe + \_\_\_\_\_O2 → \_\_\_\_Fe2O3  Type of Reaction\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_Zn + \_\_\_\_\_\_CuSO4 → \_\_\_\_\_\_\_\_Cu + \_\_\_\_ZnSO4 Type of Reaction\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_Zn(C2H3O2)2 + \_\_\_\_Na3PO4 → \_\_\_\_NaC2H3O2 + \_\_\_\_\_\_Zn3(PO4)2

 Type of Reaction\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_H2O → \_\_\_\_\_H2 + \_\_\_\_\_\_O2 Type of Reaction\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. \_\_\_\_\_Al2(SO4)3 + \_\_\_\_\_CaCl2 → \_\_\_\_AlCl3 + \_\_\_\_\_CaSO4

 Type of Reaction\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_