**Types of Chemical Reactions Activity –**

**You should use** <https://www.youtube.com/watch?v=g-biRwAVTV8>

**Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hr\_\_\_\_\_\_\_\_\_**

**Write the general explanation for each of the following types of reactions:**

1. Single replacement:

2. Double replacement:

3. Synthesis:

4. Decomposition:

**List the type(s) of reaction characterized by:**

Two products \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Only one reactant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Two reactants\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­\_\_

Only one product\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Decide which type of reaction for each equation below and justify why it is that type of reaction.**

|  |  |
| --- | --- |
| Fe+S 🡪 FeS  Type of reaction: | Justify: |
| NaCl + AgNO3 🡪 AgCl+ NaNO3  Type of reaction: | Justify: |
| Cu + AgNO3 🡪 CuNO3 + Ag  Type of reaction: | Justify: |
| CaCO3 🡪 CaO + CO2  Type of reaction: | Justify: |

**Over……**

**Circle the correct word for the following reaction**: **AB + C 🡪 AC + B**

1. A is a ( cation or anion ) while B is ( cation or anion ).

2. I know that C is also a ( cation or anion ) because it replaced ( A or B )

3. A could be the element ( Na or F ) while B could be the element (Na or F )

4. C must be element ( Na or F ) because\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Circle the correct word for the following reaction: AB + C 🡪 CB + A**

1. A is a ( cation or anion ) while B is ( cation or anion ).

2. I know that C is also a ( cation or anion ) because it replaced ( A or B )

3. A could be the element ( Na or F ) while B could be the element (Na or F )

4. C must be element ( Na or F ) because\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain what is wrong with this letter reaction. **ST + UV 🡪 SU + TV**

Write the corrected version of the above reaction.

Explain what is wrong with this letter reaction. **LM + N 🡪 MN + L**

Write the corrected version of the above reaction assuming that….

1. N is a cation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. N is a anion \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_