

Name _____

Reactants & Products

Question: How do the reactants in a chemical reaction compare to the products?

Knowledge Probe:

What do you already know about chemical reactions, reactants and products?

Investigation Plan Part 1

BEAKER A

1. Measure 40 mL of water and pour it into beaker A.
2. Measure 4 g of baking soda and add it to beaker A
3. Swirl the beaker until the baking soda dissolves.

BEAKER B

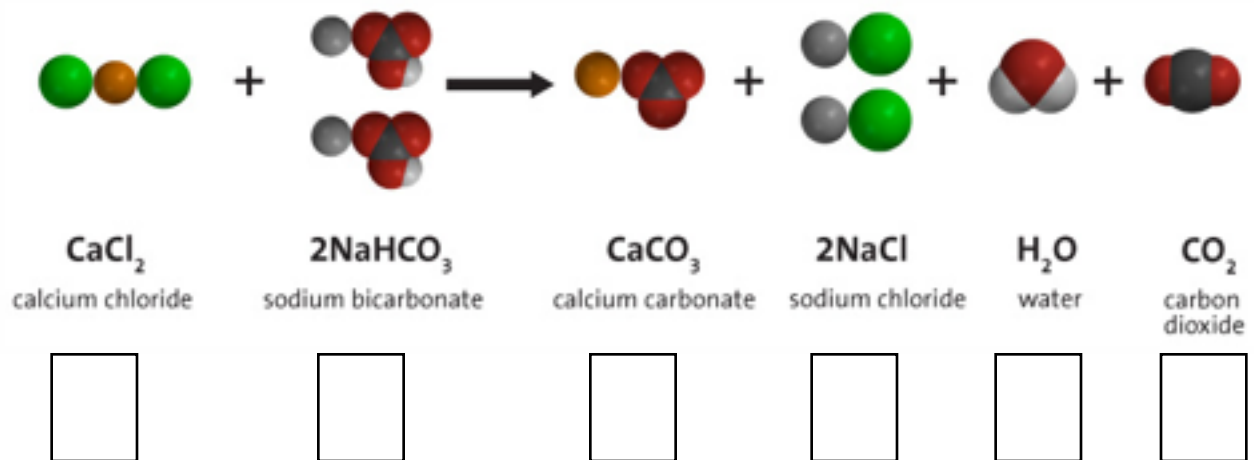
4. Measure 40 mL of water and pour it into beaker B.
5. Measure 4 g of calcium chloride and add it to beaker B
6. Swirl the beaker until the calcium chloride dissolves.

REACTION

7. Carefully pour the contents of beaker A into beaker B. Do not pour any undissolved baking soda into beaker B.

Observations

Look at the equation below. Mark an R below each substance that is a REACTANT and a P under each substance that is a PRODUCT.



How many of each type of atom appears on each side of the equation?

Atom	Reactant Side	Product Side

What examples of physical change(s) did you observe in this lab?

What indicators of chemical change did you observe in this lab?

Investigation Part 2

1. Measure 10 mL of Copper Chloride
2. Pour the Copper Sulfate into the test tube
3. Add 10 drops of ammonia to the test tube.
4. Keep adding drops until you observe a precipitate forming.
5. Record your observations below.
6. Add 10 drops of hydrogen peroxide to the test tube.
7. Continue adding drops until a precipitate forms.
6. Record your observations below.

Substance Added	Observations
Ammonia	
Hydrogen Peroxide	

What form(s) (solid, liquid, gas) were the reactants for this reaction? _____

What form(s) were the products of this reaction? _____

Question: How do the reactants in a chemical reaction compare to the products?

Claim:
