

## Experiment 4: Barium Nitrate and Sodium Sulfate

### Procedure:

1. Pour barium nitrate solution into a test tube to a depth of about 2 cm.
2. Pour sodium sulfate solution into a test tube to a depth of about 2 cm.
3. Pour one solution into the other solution. Wait for three minutes. Record your observations.

### Observations? What happened?

Which of the two metal ions will end up with nitrate? Which will end up with sulfate?

### Balance this Chemical Equation:



Diagrams

Diagrams

## Experiment 5: Zinc Nitrate and Sodium Hydroxide

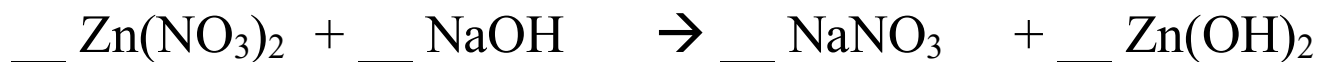
### Procedure:

1. Pour zinc nitrate solution into a test tube to a depth of about 2 cm.
2. Pour sodium hydroxide solution into a test tube to a depth of about 2 cm/
3. Pour one solution into the other solution. Wait for three minutes. Record your observations.

### Observations? What happened?

What are the names of the two compounds that will form during this double replacement reaction?

### Balance this Chemical Equation:



Diagrams

Diagrams



# Experiment 6: Iron (III) Chloride and Sodium Hydroxide

## Procedure:

1. Pour iron (III) chloride solution into a test tube to a depth of about 2 cm.
2. Pour 1.0 M sodium hydroxide solution into a test tube to a depth of about 2 cm.
3. Pour one solution into the other solution. Wait for three minutes. Record your observations.

## Observations? What happened?

Which of the metals will chlorine end up with? Which will hydroxide end up with?

## Balance this Chemical Equation:

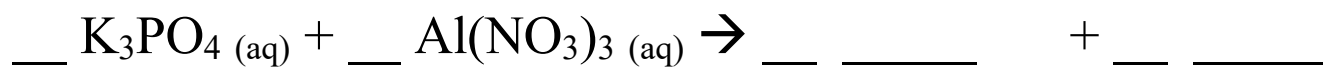


Diagrams

Diagrams

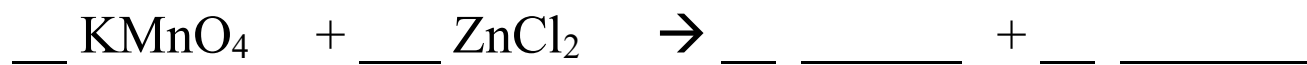


Balance these Double Replacement Reactions.



Diagrams

Diagrams

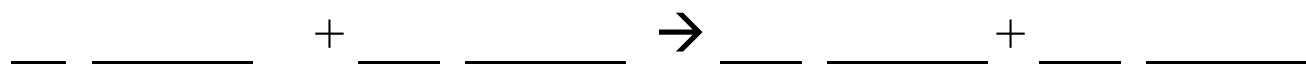


Diagrams

Diagrams

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beryllium chloride reacts with silver nitrate



Diagrams

Diagrams