

Balance these Single Replacement Reactions.

The reaction of: copper (II) nitrate + zinc metal



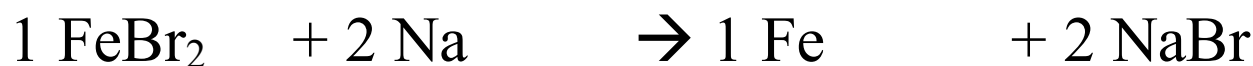
Bohr Diagrams

Bohr Diagrams

Bohr Diagrams

Bohr Diagrams

The reaction of: iron (II) bromide + sodium



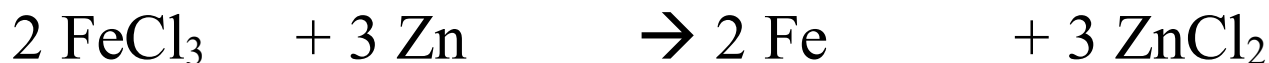
Bohr Diagrams

Bohr Diagrams

Bohr Diagrams

Bohr Diagrams

The reaction of: iron (III) chloride + zinc



Bohr Diagrams

Bohr Diagrams

Bohr Diagrams

Bohr Diagrams

Experiment 1: Copper (II) Chloride and Magnesium

Procedure:

1. Pour copper (II) chloride solution into a test tube to a depth of about 2 cm.
2. Add a 2 cm piece of magnesium ribbon to the test tube.
3. Wait for three minutes. Record your observations.

Observations? What happened?

Why does the color change in this reaction?

Balance this Chemical Equation:

The reaction of: _____ + _____



Bohr Diagrams

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During this reaction, the chloride ion trades partners, becoming bonded with magnesium.

Experiment 2: Copper (II) Chloride and Iron

Procedure:

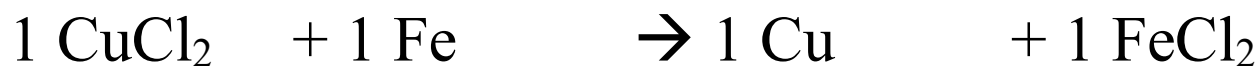
1. Pour copper (II) chloride solution into a test tube to a depth of about 2 cm.
2. Add a 2 cm piece of steel wool to the test tube.
3. Wait for three minutes. Record your observations.

Observations? What happened?

How can you tell a reaction has taken place?

Balance this Chemical Equation:

The reaction of: _____ + _____



Bohr Diagrams

Bohr Diagrams

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Bohr Diagrams

During this reaction, the chloride ion trades partners, becoming bonded with iron.

Experiment 3: Copper (II) Chloride and Zinc

Procedure:

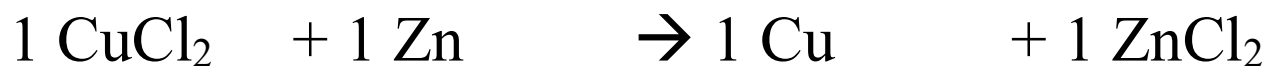
1. Pour copper (II) chloride solution into a test tube to a depth of about 2 cm.
2. Add chunk of zinc to the test tube.
3. Wait for three minutes. Record your observations.

Observations? What happened?

How can you figure out the new compounds that form during the reaction?

Balance this Chemical Equation:

The reaction of: _____ + _____



Bohr Diagrams

Bohr Diagrams

Bohr Diagrams

Bohr Diagrams

During this reaction, the chloride ion trades partners, becoming bonded with zinc.