

Quiz (Displacement Reaction)

Predict whether a reaction takes place in each of the following experiments. State an expected observation (if any) and write a chemical equation and an ionic equation for the reaction involved.

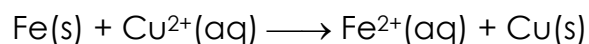
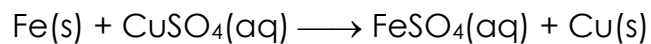
- (a) Zinc granules are added to magnesium chloride solution.
- (b) An iron nail is added to copper(II) sulphate solution.
- (c) A magnesium ribbon is added to silver nitrate solution.

Suggested Answer

1. (a) No reaction occurs.

Zinc is lower than magnesium in the metal reactivity series.

- (b) A reaction takes place. The iron nail is coated with a reddish-brown layer. The blue solution gradually turns green.



- (c) A reaction takes place.
Shiny silvery deposits form on the surface of the magnesium ribbon.

