

Six Types of Chemical Reactions

Demo Test

Name:

Aluminum foil is placed in a solution of copper(II) chloride.

Type of reaction:

Evidence of Chemical Change:

Chemical equation :

A solution of sodium chloride is mixed with a solution of silver nitrate.

Type of reaction:

Evidence of Chemical Change:

Chemical equation :

Steel wool (iron metal) is reacted with oxygen in the air by burning it in the Bunsen burner. The product is iron oxide, both iron(II) oxide and iron(III) oxide.

Type of reaction:

Evidence of Chemical Change:

Chemical equation :

Hydrogen peroxide ($H_2 O_2$) decomposes into water and oxygen gas in the presence of a catalyst.

Type of reaction:

Evidence of Chemical Change:

Chemical equation :

Solid sodium carbonate reacts with hydrochloric acid.

Type of reaction:

Evidence of Chemical Change:

Chemical equation :

A dollar bill is dunked in a mixture of rubbing alcohol and water. The alcohol burns off, leaving an intact, but wet, dollar bill. The rubbing alcohol ($C_3 H_8 O$) undergoes a combustion reaction.

Type of reaction:

Evidence of Chemical Change:

Chemical equation :

Magnesium metal is dropped into a flask of hydrochloric acid. The gas that is produced is trapped in a balloon.

Type of reaction:

Evidence of Chemical Change:

Chemical equation :

Bonus: What reaction took place when the balloon was ignited?

Type of reaction:

Evidence of Chemical Change:

Chemical equation :