

Writing Chemical Equations

Demo #1

Solid calcium carbide reacts with the melting ice to form acetylene gas and aqueous calcium hydroxide.

Then, we can combust the acetylene gas and it produces carbon dioxide gas and water vapor

Demo #2

Solid ammonium thiocyanate combined with solid barium hydroxide octahydrate is an exothermic reaction stealing energy from the environment and forming barium thiocyanate, ammonia and water.

Demo #3

Calcium metal reacts with hydrochloric acid in an exothermic single replacement reaction forming aqueous calcium chloride and hydrogen gas.