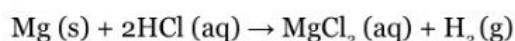


Chemical Equations

When a piece of magnesium is added to dilute hydrochloric acid, fizzing occurs and hydrogen gas is released from the mixture. The fizzing is evidence that a(n) _____ has occurred between magnesium and hydrochloric acid. The name given to either magnesium or hydrochloric acid in this case is _____, and the hydrogen gas that is released is called a(n) _____ of the reaction. Some other indications that reactions have occurred might be change of color or _____, or formation of a solid _____. If a thermometer is placed into a mixture undergoing chemical reaction, you might observe that the temperature has gone up or down, indicating that _____ was being released or absorbed. The shorthand form by which a reaction is represented is called a (n) _____.



The compound(s) on the LEFT of the arrow are the _____, and the compound(s) on the RIGHT of the arrow are the _____.

A _____ means that two compounds are being combined with one another, and the _____ means “produces” or “yields”. You can tell the state of matter a compound is in based on the abbreviation to its right.

s: _____ l: _____ g: _____

aq: _____ which means _____

The Law of Conservation of Mass tells us that in any chemical reaction, matter (mass)

_____ be _____ or _____. Or,

The total mass of the _____ must equal the total _____ of the products.

In a chemical reaction, 300 grams of reactant A are combined with 100 grams of reactant B. Both A and B react to completion. How much will the product weigh? _____

In a reaction, 25 grams of reactant AB breaks down into 10 grams of product A and an unknown amount of product B. Using the law of conservation of mass, how much does product B weigh?

Fill in the missing numbers so that each reaction demonstrates the Law of Conservation of Mass:

