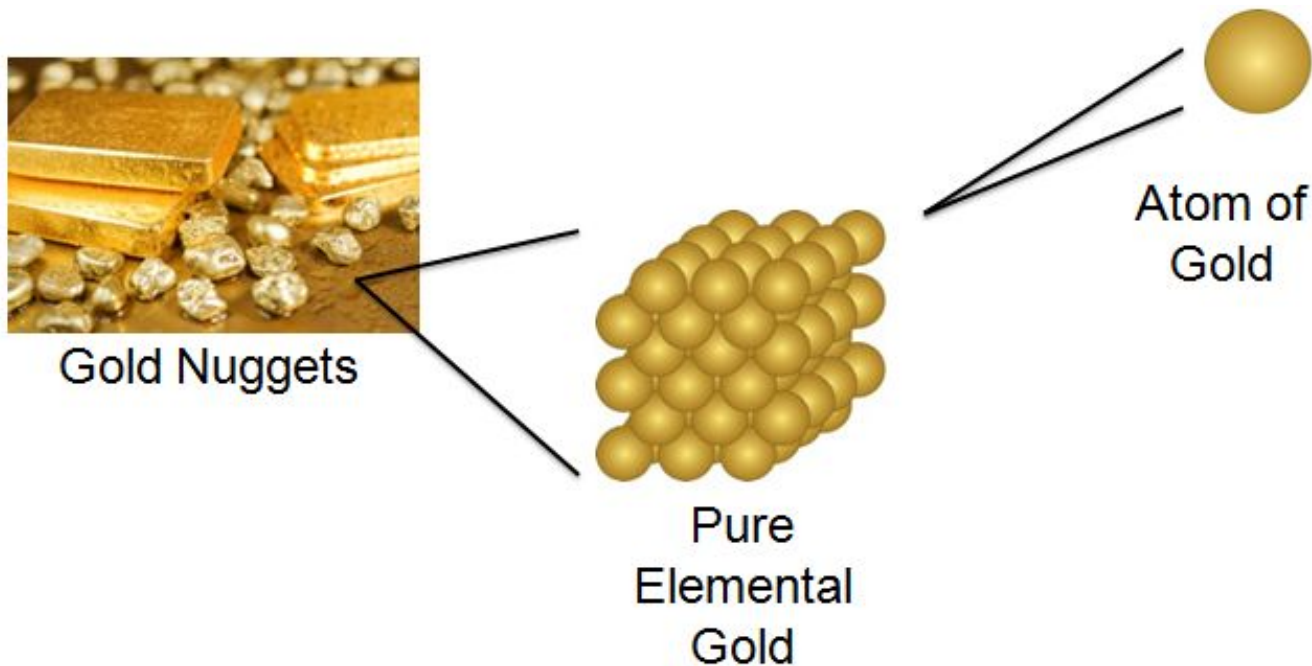


Chemical and Physical Changes

Picture Vocabulary

5.P 9.1 Chemical & Physical Changes

Element



A pure substance composed of the same type of atom throughout

Chemical Change



A change that alters the identity of a substance resulting in a new substance or substances with different properties

Physical Change



Make different without changing what the material is made of, such as cutting, folding, or melting

Chemical Property



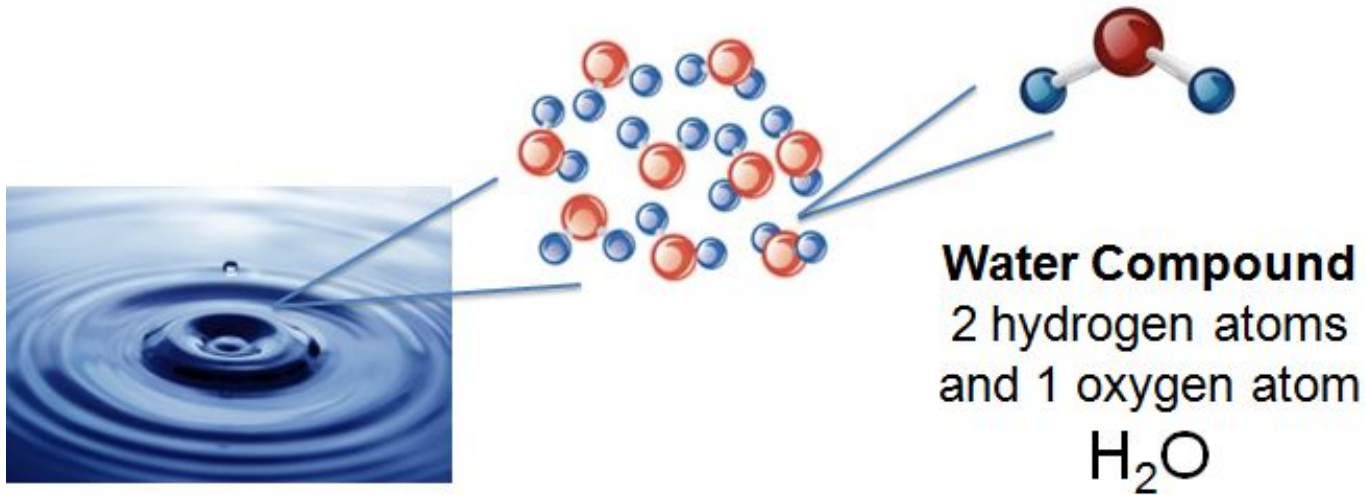
A property or characteristic of a substance that is observed or measured during a reaction in which the chemical composition or identity of the substance is changed

Physical Property



Measureable characteristics that describe the physical state of something, including mass, magnetism, temperature, density, shape, volume, and conductivity

Compound



Pure substance made of two or more kinds of atoms bound together

Properties



A single part of the way something is

States of Matter



The distinct forms that different phases of matter take on

Production of Heat or Light



Evidence of release of energy during a chemical change

Production of a Precipitate



Creation of a solid in a liquid or inside another solid during a chemical reaction; When the reaction occurs in a liquid, the solid formed is called the 'precipitate'. The chemical that causes the solid to form is called the 'precipitant'.

Production of Gas



Sign that a new substance is being formed from a chemical change; Usually seen as bubbles

Substance



Water



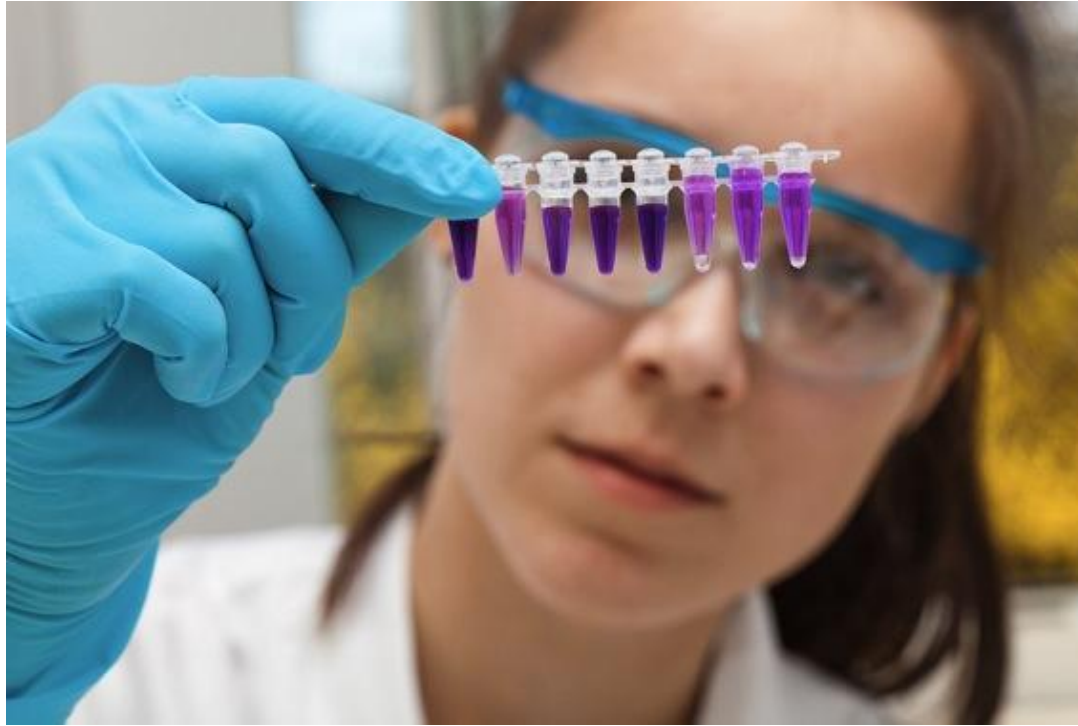
Helium Gas



Gold

Something made of all one material such as water or copper

Color Change



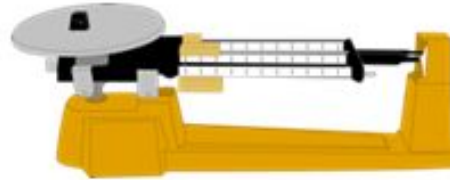
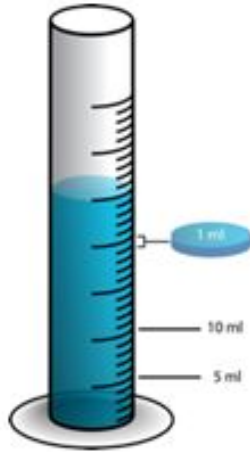
Visible changes in substance's color; is evidence of a new substance being formed from a chemical change

Temperature Change



Increase or decrease of heat energy in a substance; may be evidence of a new substance being formed during a chemical change

Matter



Anything that has mass and takes up space