

CLASSIFYING

Physical Properties & Physical Changes vs. Chemical Properties & Chemical Changes

PUT A STAR OR A CHECK IN THE CORRECT COLUMN TO CLASSIFY THE EXAMPLE.

A) Classify the following as a physical property or chemical property:

EXAMPLE	PHYSICAL PROPERTY	CHEMICAL PROPERTY
Potassium metal is kept submerged (below) in oil to prevent contact with oxygen and water.		
A banana is yellow.		
A sheet of copper can be pounded into a bowl.		
Barium melts at 725°C		
Gasoline is flammable		
Helium does not react with any other element.		
The inside of an apple will turn brown if it is exposed to oxygen.		

B) Classify the following as a physical change or a chemical change:

EXAMPLE	PHYSICAL CHANGE	CHEMICAL CHANGE
You leave your bicycle out in the rain and it rusts.		
A sugar cube dissolves.		
Scientist breaks-up water into oxygen and hydrogen gas.		
Burning coal for a barbecue.		
Trimming a bush because it has grown too tall.		
A piece of charcoal, which is mostly the substance of carbon, glows red, gives off heat, and becomes a gray ash.		
Melting butter in a trying pan.		
Baking cupcakes.		

C) CLASSIFY THE FOLLOWING:

EXAMPLE	PHYSICAL PROPERTY	PHYSICAL CHANGE	CHEMICAL PROPERTY	CHEMICAL CHANGE
Water is heated and changed into steam.				
Flammability				
Density				
Wood burns resulting in a pile of ash.				
Melting point				
Reacts with acid				
Iron rusts				
Length of a ruler				
Solubility				
Fireworks exploding				
Wet clothes become dry				
Ice melts				
Milk smells sour				
Polarity				

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