

The weight of a whole object is equal to the sum of its parts. So if I know that

each part of a chair weighs a certain amount, I can add them all together to get the whole weight of the chair. If I have a glass of ice and I weigh the ice then weigh the glass and add them together will that sum be the same if I put the glass on the scale with the ice? EXPLAIN!!

**Yes they should weigh the same because the weight of a whole object or set of objects put together will equal the sum of all of the parts of the total object.**

Physical Changes are when energy or states of matter of an object changes. The molecules are just moved in physical change. Write some examples of physical changes.

answers may vary breaking a glass cutting your hair ice melting water freezing cutting paper  
breaking a pencil in half, etc.

Chemical changes are when the matter is a different substance after the change. The molecules change in chemical change. Write some examples of chemical changes.

A nail rusts, cooking an egg, mixing chemicals and a reaction occurs, burning something,

When a physical change occurs the ending materials are the same even though they may look

different.

A chemical change makes a substance that wasn't there before.

Complete the Tree Map on the 3 states of matter. Be sure to include some examples of each and describing characteristics.

States of Matter

solid

has its own fixed volume  
and shape  
molecules are tightly packed  
not much movement  
examples may vary  
wood, brick, ice, bones

liquid

takes the shape of the  
container it is in  
molecules are less packed with no  
regular movement and move freely  
examples may vary  
water, soda, blood,

gas

takes the shape and volume of  
container it is in  
molecules are very spaced and  
have a lot of space, move quick  
examples may vary  
air, oxygen, methane

Temperature change causes the change in states of matter.