

Matter (Changes) Study Guide

Part 1: Properties of Matter:

Solids have a _____ of its own that can be measured by length, width, and depth.

_____ do not take the shape of their container but do have a fixed volume.

_____ take the shape of their container and have a fixed volume.

_____ take the shape of their container and do not have a fixed volume.

	SOLID	LIQUID	GAS
Does it change shape?			
Does it have its own size or volume?			
Can you break it into pieces?			
Can you pour it?			
Can you stick your finger through it?			

The Earth's atmosphere is a gas, made of _____ and takes up _____.

Gas is not _____, but it can fill balloons, bubbles, and bags.

Particles in a gas move _____ than particles of a solid.

Particles of a solid move _____ than a liquid.

Fruit salad is an example of a _____. You can mix it and then break it back into its original separate parts easily.

Kool Aid is an example of a _____. Once you stir the water and mix, the powder _____ and can not be separated back into its original parts.

Part 2: Changes in Matter

Ice melts and changes from a _____ to a _____.

As water freezes, it turns from a _____ to a _____.

Water is able to change from a _____ to a _____ and then back to _____ again.

As water boils, it turns from a _____ into a _____.

On a very cold glass or window, water droplets form on the sides. This is caused by _____ from the air turning to liquid.

Part 3: Heat and its effect on matter

_____ produces heat energy, such as rubbing your hands together, or tires rubbing on the road.

Heat can move through _____ and _____.

When heat is added to a solid, the particles will begin to move _____.

When heat is added to a solid and it turns into a liquid, the _____ will change.

When metal is heated to high temperatures, it can turn into a _____.

When a pan is placed in an oven or on a stove, the temperature of the pan will be the _____ as the oven or stove.

Heat energy can transfer from boiling water or fire. A spoon or metal stick will _____ in temperature as heat moves from one to the other.

Word Banks for Changes Study Guide

Part 1

dissolves
faster
gas
liquid
matter
mixture
shape
slower
solid
solution
space
visible

Part 2

gas
liquid
solid
water vapor

Part 3

faster
friction
increase
liquid
liquids
same
shape
solids