

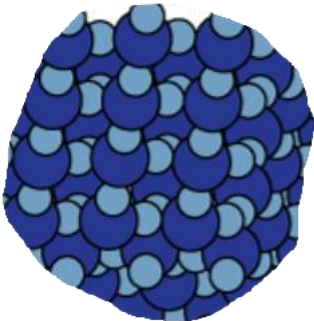
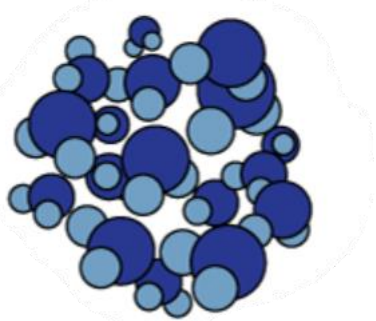
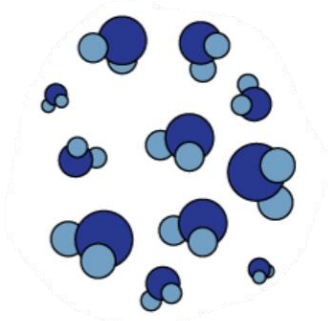
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## Physical and Chemical Changes Study Guide

by Fulton County Schools


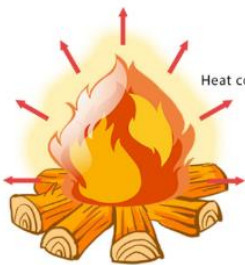

### Vocabulary



- ✓ **change of state:** moving from one state of matter to the next
- ✓ **chemical change:** a change of matter that creates a new substance that is different from the original substances.
- ✓ **chemical property:** characteristic of a substance that may be observed when it participates in a chemical reaction. examples: ability to burn, reaction with air (rust), change when heated
- ✓ **chemical reaction:** an event that occurs as a substance breaks down or joins with another substance to form one or more new substances.
- ✓ **mass:** the amount of matter in an object.
- ✓ **matter:** anything that has mass and takes up space.
- ✓ **mixture:** a physical combination of two or more substances that are blended without forming new substances.
- ✓ **physical change:** a change of matter in size, shape, or state that does not change the type of matter.
- ✓ **physical property:** a property of something you can observe. examples: color, shape, texture (how the object feels), hardness, flexibility, magnetism
- ✓ **solution:** a mixture of substances that are blended so completely that the mixture looks the same everywhere.

Three States of Matter		
Solid	Liquid	Gas
Particles in a Solid	Particles in a Liquid	Particles in a Gas
		

Name: \_\_\_\_\_

Three States of Water			
Water Form	Property	Changes in States	Temperatures
Ice	solid	Freezing: liquid to a solid	Freezing Point 32°F / 0°C
Water vapor	Gas	Evaporation: liquid to a gas	Boiling Point 212°F / 100°C
Liquid water	liquid	Condensation: gas to a liquid	

Clues that a Chemical Change occurs:	
gas (bubbles)	
temperature change	<p>Burning of wood</p> 
change in color	 <p>burning marshmallows</p>

new physical property	 <p>Cottage cheese</p>
odor	

## References

Study Jams: Physical and Chemical Changes	Study Jams: State of Matter	Physical and Chemical Changes
