

Physical & Chemical Changes Study Guide

Name: _____

Test Date: Friday January 27th

Vocabulary Term	Write the definition	Draw/insert a picture
matter		
mass		
particles		
substance		
gas		
solid		
liquid		
mixture		
physical change		
chemical change		
condense		
evaporate		
precipitate		

Answer the following True or False statements related to physical and chemical changes:

- _____ Ice melting to a liquid is a physical change
- _____ Water evaporating to a gas is a physical change
- _____ Mayonnaise being spread on bread is a chemical change
- _____ Rust forming on a bike is a chemical change
- _____ A firework exploding creates new heat and light, making it a physical change
- _____ Physical changes make new substances
- _____ Chemical changes can result in a change in odor or color
- _____ Physical changes can result in a change in shape or size
- _____ Ripping a piece of paper is a chemical change because it can't be reversed
- _____ A banana rotting is a physical change because it is still a banana

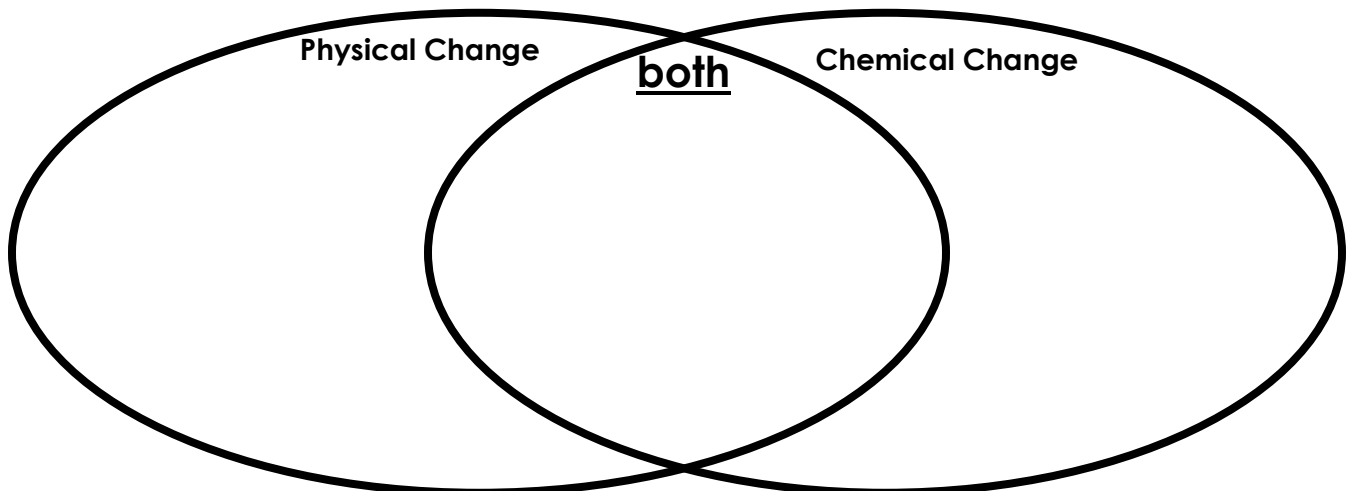
Draw an example below of two types of mixtures:

A heterogenous mixture and a solution (homogenous mixture)


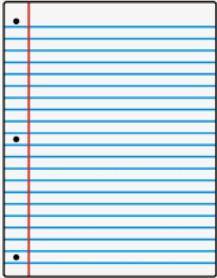

Heterogenous Mixture	Homogenous Mixture (solution)

Compare and Contrast Physical and Chemical Changes using the word bank and venn diagram below

<u>Creates a new substance</u>	<u>No new substance created</u>	<u>Mixture</u>
<u>Change in shape</u>	<u>Change in color</u>	<u>Formation of a gas or energy</u>
<u>Reversible</u>	<u>Nonreversible</u>	<u>Change matter</u>



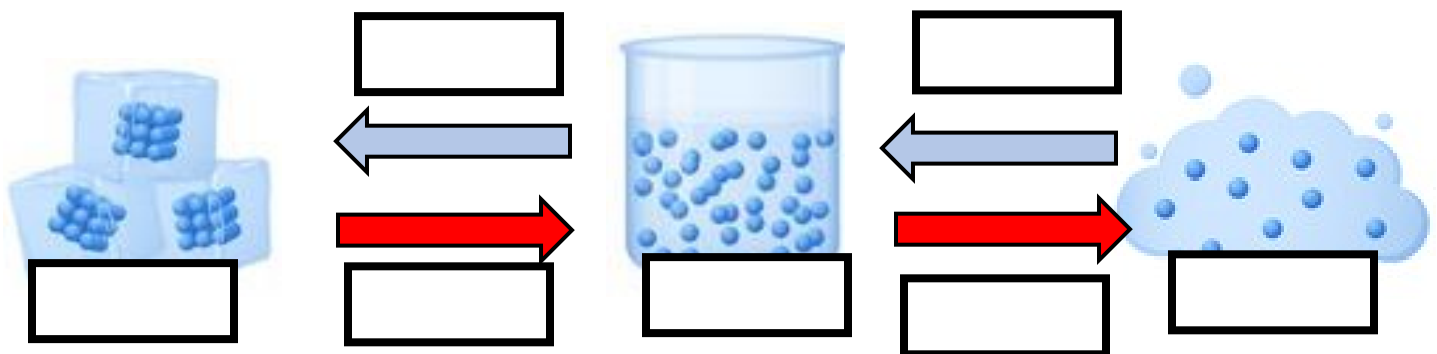
Show how the following items could go through a chemical change and physical change using the boxes below:

Object	Describe a chemical AND physical change it could go through and draw a picture of each	
	<u>Physical Change</u>	<u>Chemical Change</u>
	<u>Physical Change</u>	<u>Chemical Change</u>
	<u>Physical Change</u>	<u>Chemical Change</u>

Fill in the following chart to show how water changes states of matter:

When water changes states of matter, it is showing a _____ change.

Word Bank			
○ Solid (ice)	○ Liquid (water)	○ Gas (water vapor)	○ Evaporation
○ Condensation	○ Melting	○ Freezing	



Locate all of the physical and chemical changes occurring in the following picture:

