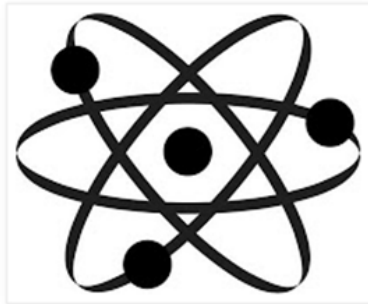




States of Matter: Physical vs. Chemical Changes



Information About Me

Gender (Circle One): Male Female **Grade:** _____

Are you part of a Military Family? (Circle One): Yes No

Race & Ethnicity (Circle any that apply):

White African-American or Black Asian

American Indian Pacific Islander Hispanic ethnicity

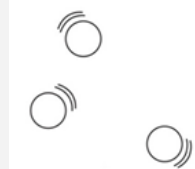


Particles in Motion

DRAW A LINE to show how the particles of each state of matter move / are packed together

1. SOLID

A.

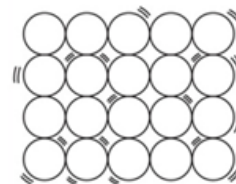


Move at fast speed/particles very far apart

2. LIQUID

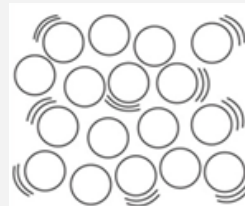
B.

Move at slow speed/particles packed tight together



3. GAS

C.



Move at medium speed/particles packed fairly close together

States of Matter

CIRCLE the THREE states of matter:

Solid

Mud

Gel

Liquid

Gas

Crystals

TURN OVER PLEASE →



States of Matter: Physical vs. Chemical Changes



My favorite thing about 4-H is:

Is it a physical or chemical change?	
<u>CIRCLE</u> the correct type of change for each example below.	
PHYSICAL or CHEMICAL	Go from ice to water by adding heat.
PHYSICAL or CHEMICAL	Mixing flour, eggs, sugar, and baking a cake.
PHYSICAL or CHEMICAL	Rip a piece of paper in half.
PHYSICAL or CHEMICAL	Burn a piece of paper, creating ash around the edges.
PHYSICAL or CHEMICAL	Go back and forth from water to water vapor (gas) by boiling a pot of water.

Physical vs. Chemical Changes		
<u>CIRCLE</u> the answer that fills in the blank for each question below.		
1. In a _____ change, matter reacts with other matter and a new substance is made.	Physical	Chemical
2. In a _____ change, a substance stays the same, just in a different form.	Physical	Chemical
3. To change water from a <u>solid</u> (ice) back to a <u>liquid</u> you _____.	Add Heat	Remove Heat
4. To change water from a <u>gas</u> (water vapor) back to a <u>liquid</u> , you _____.	Add heat	Remove Heat