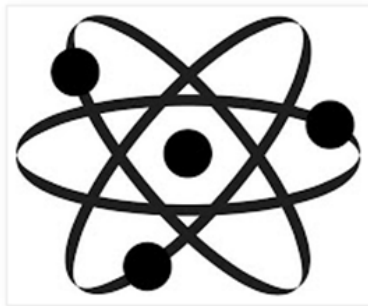




# States of Matter: Physical vs. Chemical Changes



## 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

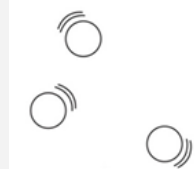


## Particles in Motion

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

**1. SOLID**

**A.**

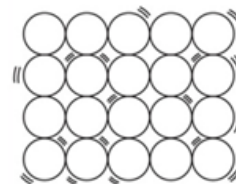


Move at fast speed/particles very far apart

**2. LIQUID**

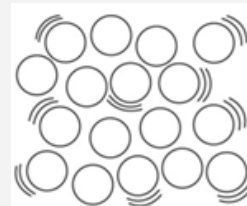
**B.**

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 <u>or</u> CHEMICAL	Go from ice to water by adding heat.
PHYSICAL <u>or</u> CHEMICAL	Mixing flour, eggs, sugar, and baking a cake.
PHYSICAL <u>or</u> CHEMICAL	Rip a piece of paper in half.
PHYSICAL <u>or</u> CHEMICAL	Burn a piece of paper, creating ash around the edges.
PHYSICAL <u>or</u> 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



THANK YOU!