PRESENTE STATES

Observations, Inferences, Predictions

What is an observation?

Observation: uses the five senses to gather information.

SCIENTISTS WILL OBSERVE NATURE USING THE FIVE SENSES: SIGHT! SOUND! TASTE! TOUCH!

Example of Observations

- Munyari wasn't in class on Monday
- Ms.Kanner is wearing glasses
- There are pencils without erasers

What is an inference?

Inference: something you think is true based on observations.

Example of inferences

- Observation: Munyari wasn't in class on Monday.
- Inference: Munyari is home sick today.
- Observation: Ms.Kanner is wearing glasses.
- Inference: Ms.Kanner can not see that well.
- Observation: There are pencils without erasers.
- Inference: Someone ripped off the earasers.

7 7 7 7 7 7 7 7 7 Bag Game

BAG GAME RULES

- I will hold up a plastic bag filled with something
- Using your senses describe what is in the bag-like we did with the starburst
- make three observations
- Make an inference about what is in the bag? What is the thing in the bag?

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Bag game

Bag 1

- Solid object

Bag 2

- Liquid object

Bag 3

- Gaseous object



STATES OF MATTER

Solid, liquid, gas

Definition: anything that has weight and takes up space

Yes air has matter.

What is a solid?

- a state of matter that maintains its own shape instead of conforming to the shape of its container

Examples:



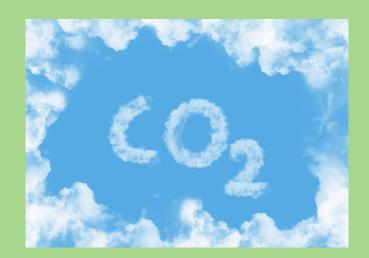


What is a gas?

- a state of matter that has no fixed shape and no fixed volume.

Examples:





What is a liquid?

- An intermediate state of matter between a gas and a solid.

Examples:



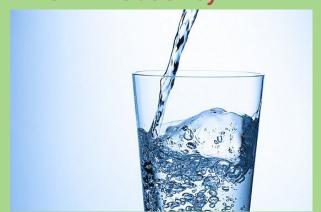


Liquids have different Viscosities

You can think of viscosity as how thick a liquid is. A liquid with high viscosity

Examples:

Low Viscosity



High Viscosity



Non newtonian fluid

What if something doesn't fit into one category? Or What if something's viscosity changes when you squeeze it?

Well then it's a Non Newtonian Fluid!

That is a fancy name for when the viscosity of an object can change when under force to either more liquid or more solid.

What are the states of matter

- Solid

- Liquid
- Gas

What is viscosity?

- how thick a liquid is.

EXAMPLES:

What is a Non Newtonian Fluid?

- when the viscosity of an object can change when under force/pressure to either be more liquid or more solid.

OOBLECK

- A non newtonian fluid made out of water and cornstarch



LAB DAY

Follow instructions closely or you will sit out of today's lab

WARNING THIS LAB WILL BE MESSY

LAB INSTRUCTIONS!!

Go to the Oobleck lab page of your packet. DO NOT TOUCH YET

- Before touching the oobleck, use your senses (sight, smell, hearing) to make observations about it.
- Then start with the first thing in the what to try column. Before you do the action, make a prediction in the second column.
- Then do the action and write down your observations.
- Try your best to write down inferences (at least three rows)
- Continue moving through the worksheet in that order: make a prediction, do the action, write observations, and make an inference.