States of Matter

and their Properties





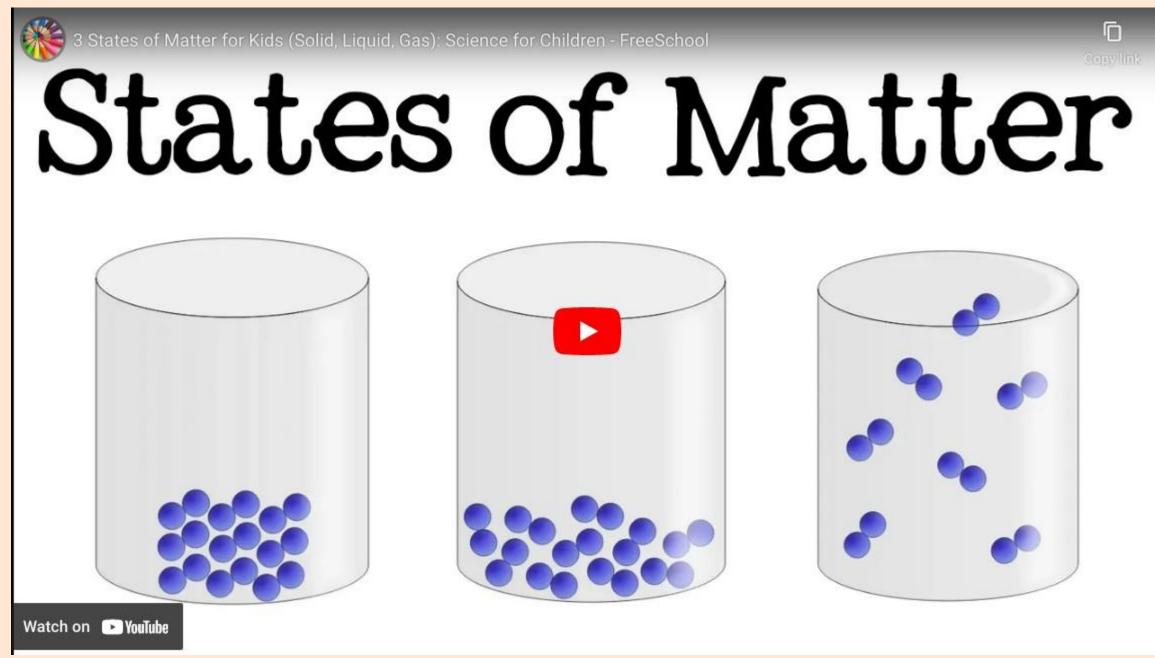
Matter

Matter is everything that has mass and takes up space. It can be visible or invisible.









3 States of Matter

Solid

Does not change shape or volume

Liquid

- Can change & adapt to shape
- Volume remains the same

ee

Gaseous (Gas)

- Takes shape of the container
- Volume can change based on container







Activity Time

- 3 volunteers
- Work together
- Move to demonstrate (demostrar) properties of solid, liquid, gas







What is the state represented?



Liquid! Why?



What is the state represented?

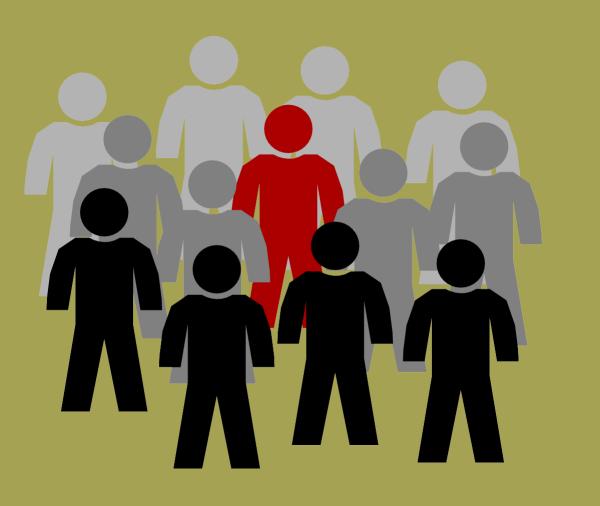




Gas! Why?



What is the state represented?



Solid! Why?





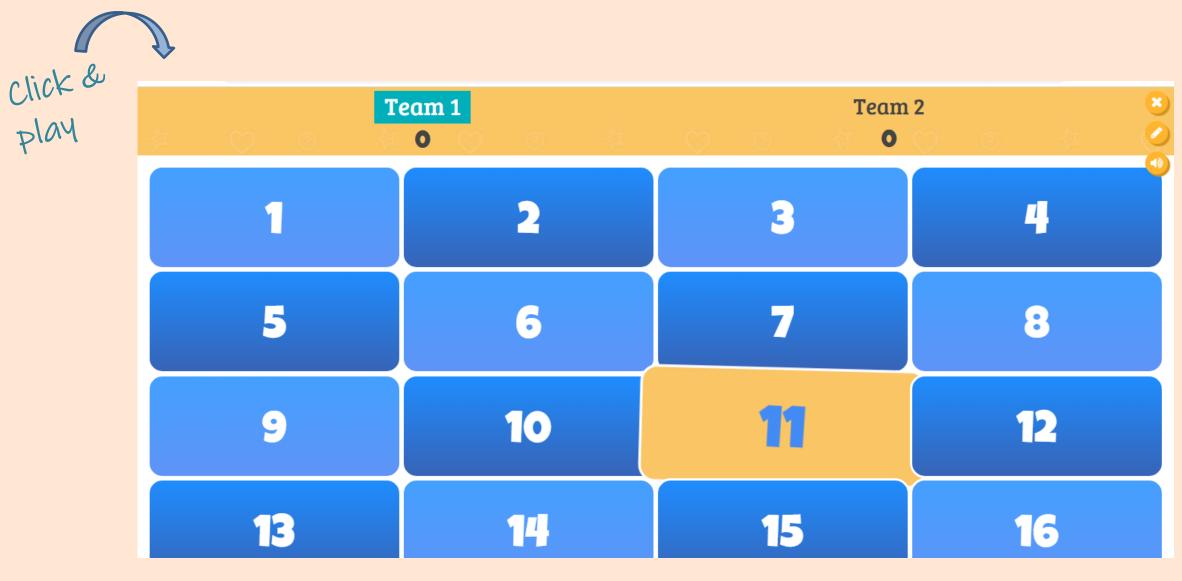


Harry Kindergarten Music @HarryKindergarten

https://www.youtube.com/watch?v=C33WdI64FiY

Activity time: What state is it?



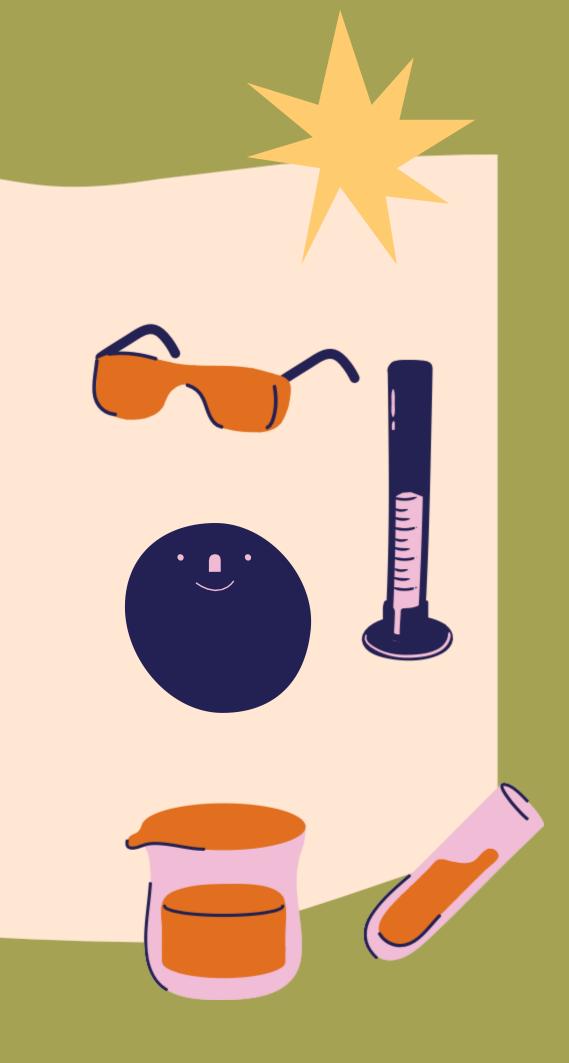




https://www.baamboozle.com/game/37042 2

Kinetic Particle Theory

Matter behaves differently depending on temperature.



Vocabulary

Cohesion

Forces of attraction between particles

Aggregation

How close particles are together

Temperature

The measurement
 of the movement
 of particles

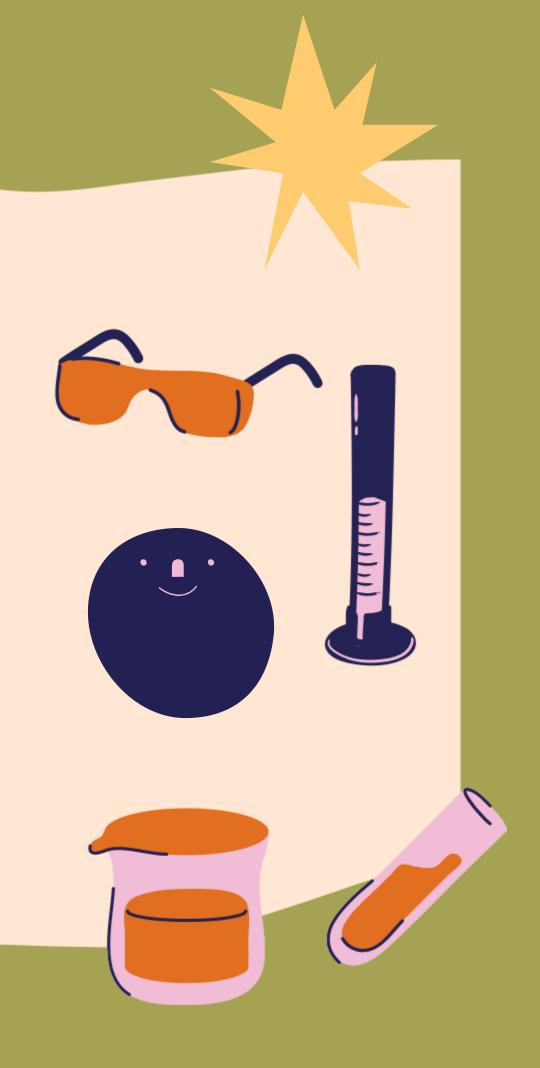
Kinetic Particle Theory

- 1. Particles make up matter.
- 2. Particles have cohesion between them.
- 3. Particles are in continuous movement.

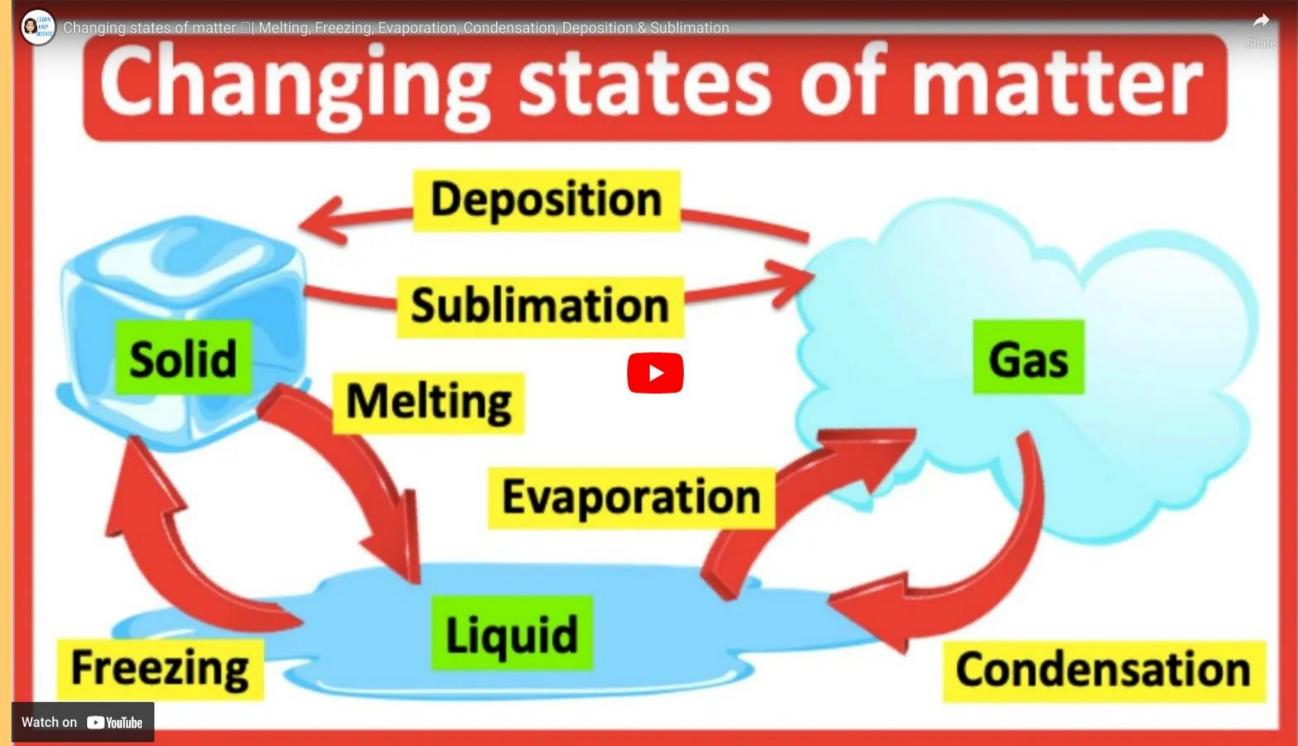
As temperature rises, speed and separation between particles increase, decreasing cohesion

Change of State

A change of state is a change of the aggregation (closeness of particles) without change in chemical composition.







Vocabulary!

Melting

Freezing

Transition from solid to liquid

Transition from liquid to solid



Vocabulary!

Vaporisation

Condensation

Transition liquid to gas

Transition gas to liquid



Vocabulary!

Sublimation

Deposition

Transition solid to gas

Transition gas to solid





Activity: Write the phy sical change

- 1. We leave a piece of ice at room temperature.
- 2. We put some water in the freezer.
- 3. We see tiny droplets form on the outside of a glass of cold soda on a warm day.
- 4. You can leave your wet towel to dry in the sun.
- 5. You experiment with dry ice.
- 6. You see frost on your window on a freezing cold day.



Activity: Write the phy sical change

- 1. We leave a piece of ice at room temperature. I. TING
- 2. We put some water in the freezer. FREEZING
- 3. We see tiny droplets form on the outside of a glass of cold soda on a warm day. CONDENSATION
- 4. You can leave your wet towel to dry in the sun. EVAPORATION
- 5. You experiment with dry ice. SUBLIMATION
- 6. You see frost on your window on a freezing cold day.

DEPOSITION