HOÀNG THỊ LÂM DUNG - TRẦN THỊ LAN





STATES OF MATTER

Let's learn!



I. Listen, point and read. 🕟 🐚



matter

things that have mass and occupy space

non-matter

energy and abstract concepts

Living things

matter

Non-living things













human

flower

giraffe

water

ring

bottle

Non-matter









sound

reflection

energy

shadow

Matter is made of tiny particles and can exist as:



Solid

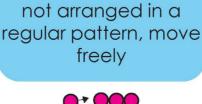


closely packed and



Gas

closely packed and arranged in a regular pattern, stable and not move much



loosely packed and far apart, move freely







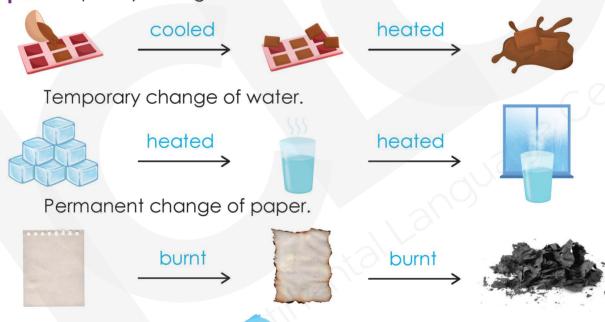
States of matter	Properties of particles	Example
Solid	a definite shape a definite volume	ice, glass, pencil, coin
Liquid	no definite shape a definite volume	milk, juice, oil, glue, water, rain
Gas	no definite shape no definite volume	smoke, tornado, steam, carbon dioxide, fume

II. Listen and read. 🙉 📖

Transformation of states of matter

When things are heated or cooled, they will change their original states into other temporary or permanent states of matter.

Example: Temporary change of chocolate.











3.

II. Write solid/liquid/gas in the box.

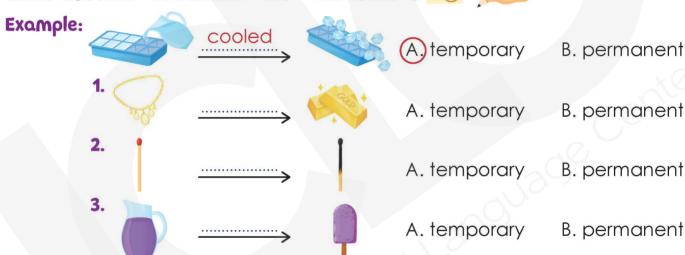








III. Circle the correct transformation of the matter and write "heated" or "cooled". AB



Hands-on activity!



Step 1: Add some drops of food coloring into a cup of water.



Step 2: Place 2 ice balls on 2 plates.

Step 3: Sprinkle some salt on an ice ball and use a dropper to add some drops of colored water on the salt.

Repeat this process 4 times. Leave the other ice ball untouched.







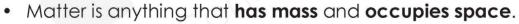


Step 4: Observe how the ice balls melted and answer questions in the handout.

Hold the flashlight behind the ice balls to see the melting pattern light up.



Let's memorize!



- Matter is made of tiny particles.
- There are three states of matter: solid, liquid and gas.
 - Solid has definite shape and volume.
 - Liquid has no definite shape and a definite volum.
 - Gas has no definite shape and volume.
- When things are heated or cooled, they will change their original state into other temporary or permanent states of matter.