STATES OF MATTER



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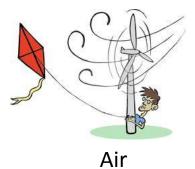
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

WHAT IS MATTER?

Anything that has mass and volume.







WHAT ARE THE STATES OF MATTER?

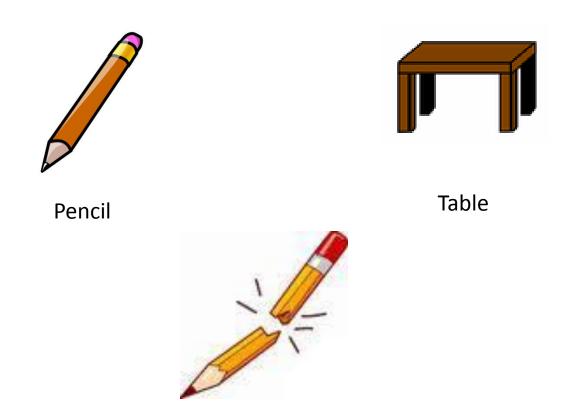
Matter exist in three states in nature

- 1. Solid state
- 2.Liquid state
- 3. Gaseous state



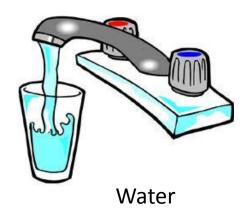
WHAT IS A SOLID?

• Matter that has constant volume and constant shape



WHAT IS A LIQUID?

• Matter that has a constant volume but not a constant shape





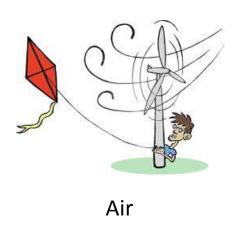
- liquid flows to take the shape of the container
- It has a certain volume





WHAT IS A GAS?

Matter that has neither constant volume nor constant shape





- A gas disperse to fill every space of the container
- A gas flows and take the shape of the container



SUMMARY

- What is Matter
 - -Definition
 - Examples
- States of Matter
 - Solids, Liquids, Gases

State of matter	Example	Constant volume	Constant shape
1. Solid	Pencil	Yes	Yes
2. Liquid	Water	Yes	No
3. Gas	Air	No	No

TEST YOUR SKILLS

1. What are the states of matter that water can have?

ANSWER

- Water can exist in all three states,
- Solid state-Ice (Below 0 °C)
- Liquid state-Water (Room temperature)
- Gaseous state-Steam (Above 100 °C)

