

STATES OF MATTER KNOWLEDGE ORGANISER



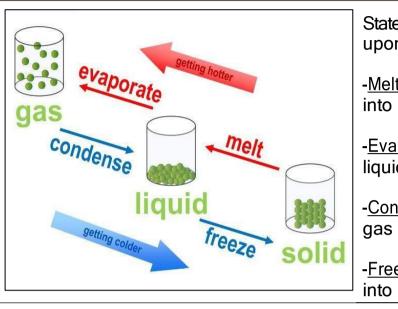
Overview

- -Matter makes up our planet and the whole Universe.
- -There are three main states of matter solids, liquids and gases.
- Matter can change state, depending on its temperature.

-Several processes describe the processes of changing states, e.g. melting, evaporation, freezing and condensation.

-The water cycle depends upon some of these processes.

Changing States of Matter



Solids, Liquids and Gases		Role in the Water		
All matter exists in three states: solids, liquid	ls and gases.			Chai npo
SOLIDS -Solids hold their shape -Solids are rigid -Solids have a fixed volume Examples include ice cubes, rock, glass and most metals.	SOLID		evaporation E su	EVA Enei urfa
LIQUIDS -Liquids do not hold their shape -They are not rigid -However, they have a fixed volume. Examples include water, oil, blood and milk	LIQUID		C surface runoff hi	o ris CON Is th igh
GASES -Gases do not hold their shape -They are not rigid -They do not have a fixed volume. Examples include oxygen, carbon dioxide and helium.	GAS		P Ocean oround water P W th	ond PRE Vhe ne c old

Solids			Liquids		
Wood Ice C	Cube Glass	Coffee	Water	Shower Gel	Carbon Dioxide



States of matter can change, depending upon the temperature of the matter.

-Melting is the process of changing a solid into a liquid.

-Evaporation is the process of changing a liquid into a gas.

-Condensation is the process of changing a gas into a liquid.

-Freezing is the process of turning a liquid into a solid.

r Cycle

anging states of matter play an portant part in the water cycle:

APORATION

ergy from the sun heats up the face of the Earth. This causes the perature in rivers, lakes and oceans rise, and evaporate into the air.

ONDENSATION

the water vapour rises, it cools in the her air and turns back into liquid ndensation. This creates clouds.

ECIPITATION

en too much water has condensed, clouds become too big for air to Id them. Precipitation occurs.

		Gases
le	Air	Oxygen

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