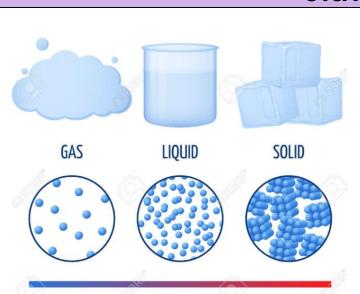


## STATES OF MATTER KNOWLEDGE ORGANISER

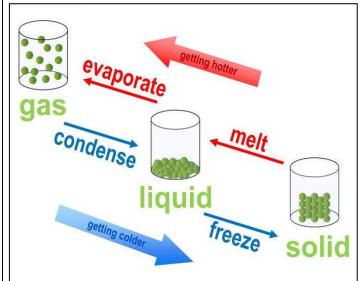


### **Overview**



- -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**



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

### Solids, Liquids and Gases

All matter exists in three states: solids, liquids and gases.

### **SOLIDS**

-Solids hold their shape -Solids are rigid -Solids have a fixed volume

LIOUIDS -Liquids do not hold their shape

-They are not rigid

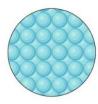
-However, they have a fixed volume.

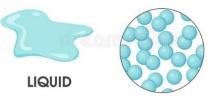
Examples include water, oil, blood and milk

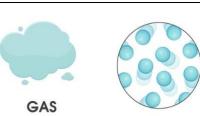
Examples include ice cubes, rock, glass and most metals.

# SOLID

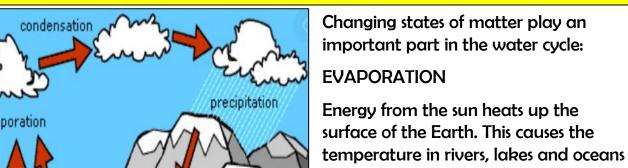








### **Role in the Water Cycle**



### CONDENSATION

As the water vapour rises, it cools in the higher air and turns back into liquid condensation. This creates clouds.

to rise, and evaporate into the air.

### **PRECIPITATION**

When too much water has condensed. the clouds become too big for air to hold them. Precipitation occurs.

### **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.





Solids Gases Liquids Wood Ice Cube Glass Coffee Water **Shower Gel** Carbon Dioxide Air Oxygen

ground water