Groovy Greeks – Year 4 – Autumn 2 – Science—States of Matter

MANORSIDE ACADEMY

Vocabulary

Word	Definition
Temperature	How hot or cold something is. Measured in degrees Celsius (C)
Particle	A tiny amount of something. You can't see them with your eyes!
Melting	The process of a solid heating and changing into a
Evaporating	The process of a liquid heating and changing into a gas
Condensation	The process of a gas cooling and changing into a liquid.
Freezing	The process of a liquid cooling and changing into a solid.

Previous Knowledge

In Year 1 you learnt:

Distinguish between an object and the material from which it is made.

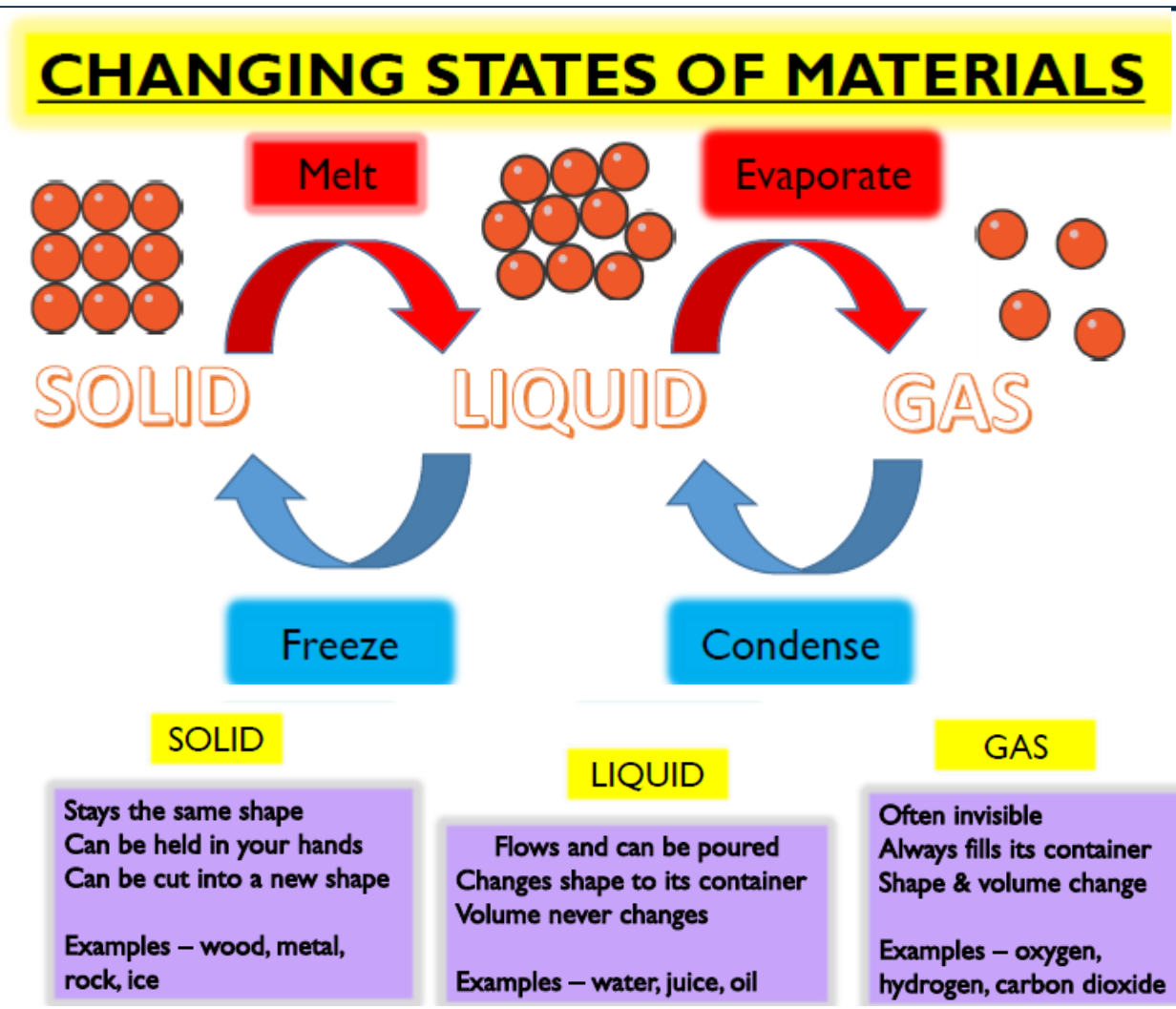
Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock

Describe the simple physical properties of a variety of everyday materials

In Year 2, you learnt:

Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.

Find out how the shapes of solid objects made from some materials can be changed by



Key Questions

What are liquids, solids and gases?

Can we see gas?

How can we prove gas exists?

What temperature does water freeze?

What temperature does water boil?

At what temperature does water turn into gas?

What is condensation?

What happens to condensation when its

temperature increase?

Working Scientifically

- Asking relevant questions and using different types of scientific enquiries to answer them.
- Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further
- Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions. questions.
- Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers