



KNOWLEDGE ORGANISER

SCIENCE: EVERYDAY MATERIALS

YEAR ONE

KEY KNOWLEDGE:

QUESTION 1: Is all paper the same?

ANSWER

There are many different types of paper and paper is used for many different reasons. The reason we have different types of paper and often different thicknesses of paper as so that some can be better for using paint while others are better for chalk and many other reasons.

QUESTION 2: Is all fabric the same?

ANSWER

Fabrics are not all the same – some are made from natural materials and some are man-made. They have different properties as they are used for different reasons and jobs.

Synthetic

Rayon
Nylon
Acetate
Acrylic
Spandex
Polyester



Natural

Silk
Cotton
Wool
Mohair
Cashmere

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QUESTION 3: What properties do ice and water have?

ANSWER

What is water?

Like all "stuff", water is made up of molecules. Maybe you have heard water called H₂O? This is actually the chemical formula for the molecule that makes up water.

States of Water

We know that water isn't always "wet", sometimes it's frozen into ice or snow. Depending on the temperature and energy of the molecules in water, water can exist in three states:

- **Ice** - Ice is the solid form of water. When water gets below 0 degrees C (32 deg F) it will freeze and become ice.
- **Liquid** - This is the wet stuff we drink and swim around in.
- **Vapor** - When water evaporates or gets above 100 degrees C and starts boiling, water turns into its gas state called vapor.



Solid



Liquid



Gas