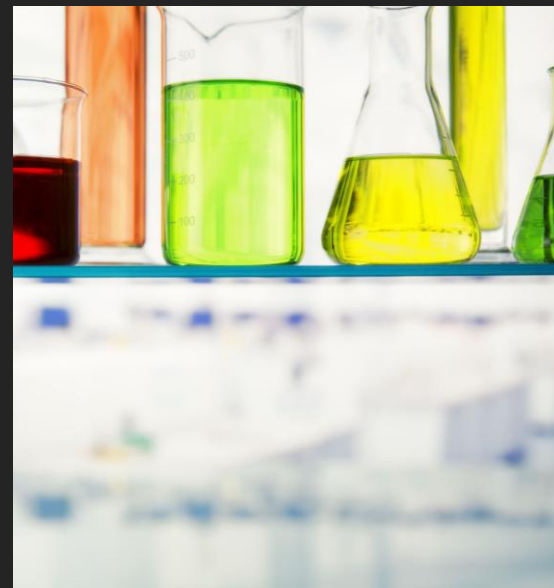




Science - Materials

St Francis RC Primary
School





EYFS – Knowledge and Understanding of the World

- Staff encourage interactions with the outdoors to foster curiosity and give children freedom to touch, smell and hear the natural world around them during hands-on experiences
- Through exploring the seasons we explore - *Where is the best place to melt ice?*

Year 1 – Everyday Materials

- Know that materials can be grouped according to their properties.
- Know that objects are made from one or more materials.
- Know that cloth is absorbent and soaks up the most water.
- Know that waterproof materials do not let water pass through.



Year 1 We investigate the following...

- We need to choose a material to make an umbrella. Which materials are waterproof?
- What happens to materials overtime if we bury them in the ground?
- Which materials can be recycled?



Year 1 - Everyday Materials – Key Vocabulary

Hard

stretchy

bendy

Waterproof

breaks

rough

Shiny

see
through

soft stiff

floppy

absorbent

tears

Smooth

Not see
through

Year 2 - Everyday Materials



- Know that materials have different uses according to their properties
- Know that materials can be changed by squashing, bending, stretching and twisting.

We investigate the following:

- *Which material would be best for an astronaut's towel?*
- *Which material would be the best for the roof of the little pig's house?*
- *Which materials are shiny and which are dull?*
- *Would a paper boat float forever?*

Year 2- Everyday Materials – Key Vocabulary

transparent

translucent

opaque

Flexible

rigid

reflective

non-
reflective

absorbent

Year 4 - States of Matter



Know the properties of solid, liquids and gases.



Know what evaporation is.



Know what condensation is.

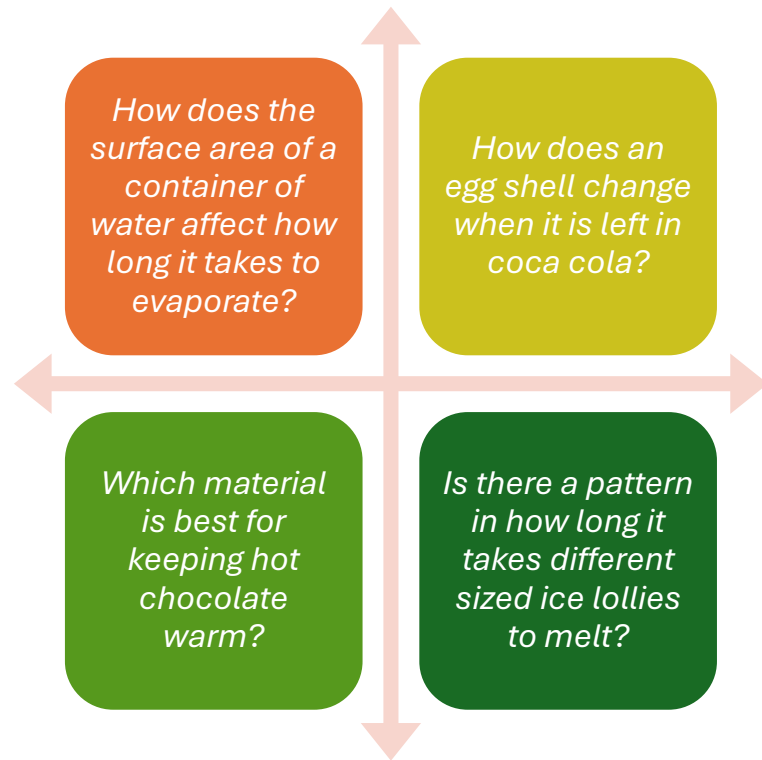


Know the events of the water cycle and describe the water cycle.



Know the freezing and boiling points of water.

Year 4 – We investigate the following...



Year 4 – States of Matter

Key Vocabulary

change of state

Melting

freezing

melting point

boiling point

evaporation

condensation

water cycle

temperature



Year 5 - Everyday Materials – Properties and changes of materials

Know

Know that materials can be separated by sieving, filtering and evaporating.

Know

Know that materials can be grouped together according to their properties such as solubility, transparency, response to magnets, electrical conductivity, thermal conductivity, hardness and transparency.

Know

Know the difference between reversible and non reversible changes.

Know

Know that non reversible changes result in the formation of new materials.



Year 5 – We investigate the following...



Which type of sugar dissolves the fastest?



How does the temperature of tea affect how long it takes for a sugar cube to dissolve?



How does a nail in salt water change over time?



What are micro plastics and why are they harming the planet?

Year 5 – Properties and changes of materials– Key Vocabulary

