

Properties and changes of materials

Innovation & Change

Introducing new ways and methods to make something better or easier. To make something different.

KS2 Yr B

Learning journey

KS1:
 Explore characteristics of everyday objects.

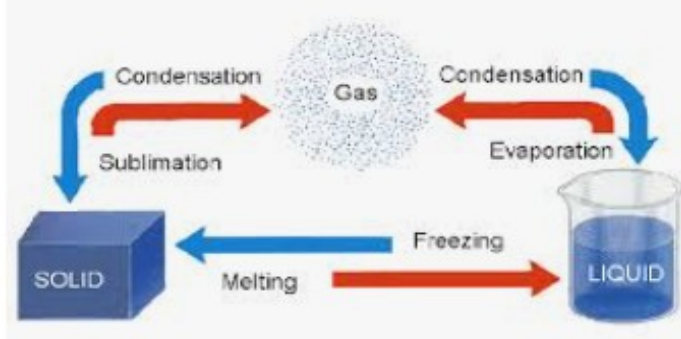
Distinguish between an object and the material from which it is made.

Identify and compare the suitability of a variety of everyday materials.

KS2:
 Observe how magnets attract or repel each other and attract some materials and not others.

Compare and group materials together, according to whether they are solids, liquids or gases.

How does light and electricity react with different materials.



My Component Knowledge:

Lesson 1: I can name and define the process when a material changes state.

Lesson 2: I can plan and conduct a fair experiment to investigate melting and dissolving.

Lesson 3: I can plan and conduct a fair experiment to investigate the rate of evaporation.

Lesson 4: I can suggest ways in which materials can be separated.

Lesson 5: I can recall my knowledge about the properties and changes of materials.

My Composite Knowledge:

I can compare and group together everyday materials on the basis of their properties. Conducting experiments to further my understanding through investigation.

My Powerful Knowledge:

I understand that everyday materials can be compared and grouped on the basis of their properties, including their hardness, solubility, transparency and conductivity.

Key Vocabulary

Tier 1: solid, liquid, gas, boiling, freezing, melting

Tier 2: dissolve, solution, filter, state, prediction

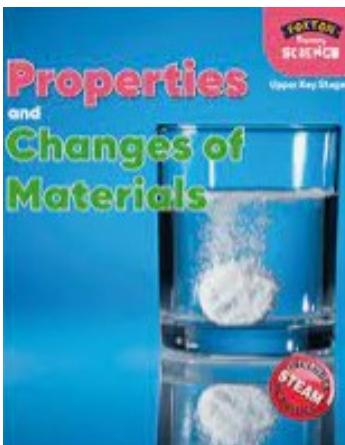
Tier 3: variables, soluble, insoluble, evaporation, conclusion

Working Scientifically

Identify differences, similarities or changes related to simple scientific ideas and processes.

Asking relevant questions and using different types of scientific enquiries to answer them.

Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.



What is the difference between melting and dissolving?

How can materials in a mixture be separated?

