

Science

Materials and changing state

Y5 Identify a wide range of reversible and irreversible changes that are in use in everyday life.

Y5 Classify and group mixtures for how they can be separated, including sieving, filtering and evaporating.

Y5 Provide evidence and reasons why a material has been chosen for a specific use.

Y5 Scientifically and systematically compare the functionality of a range of materials to perform a specific function.

Y5 Describe what happens when a solute dissolves in a solvent to form a solution and how this process can be reversed.

Y5 Describe comprehensively some familiar and unfamiliar material's physical properties, including transparency, conductivity, solubility and magnetism.

Y5 Compare reversible with irreversible change, using flow diagrams/equations to show which materials are added, what is made and indicating if the reaction can be reversed.

Alchemy Island



Our keys skills this term:

1a

Science - Working scientifically

Y5 Raise different types of scientific questions, and hypotheses.

Y5 Plan a range of science enquiries, including comparative and fair tests.

Y5 Plan and carry out comparative and fair tests, making systematic and careful observations.

Y5 Take measurements using a range of scientific equipment with increasing accuracy and precision.

Y5 Use and develop keys to identify, classify and describe living things and materials.

Y5 Record data and results of increasing complexity using scientific diagrams, labels, classification keys, tables, bar and line graphs and models.

Y5 Use relevant scientific language and illustrations to discuss, communicate and justify their scientific ideas.

Y5 Use a simple mode of communication to justify their conclusions on a hypothesis.

Y5 Begin to recognise how scientific ideas change over time.

Computing

Y5 With support, begin to produce algorithms by using logical and appropriate structures to organise data, and create precise and accurate sequences of instructions.

Y5 Demonstrate knowledge and understanding of computer systems and hardware by identifying and defining the functions of the processor, memory, backing storage and peripherals in a typical desktop computer.

Y5 Recognise the need for accuracy when searching for and selecting information.
•Prepare and present information in a range of forms, using ICT safely and responsibly.

Y5 Judge what sort of privacy settings might be relevant for reducing different risks.

Y5 Judge when to answer a question online and when not to.

Y5 Be a good online citizen and friend.

Y5 Articulate what constitutes good behaviour online.

Y5 Select, use and combine a variety of software, including internet services on a range of digital devices, explaining how email and online discussion areas are used for communication and collaboration.