The Secret Science of Mixtures

YEAR 4 • USEFUL WEBSITES

Click the blue titles to open each website. Explore with a teacher or parent.

SOLID, LIQUID OR GAS?

Oak National Academy: States of matter

Explore a Year 4 lesson about the properties of solids, liquids and gases. Watch and discuss with an adult.

Try it: find one example of each state.



MELTING AND HEATING

Oak National Academy: Changing state

Find out how heating can turn some solids into liquids. Use the lesson pictures and quizzes with an adult.

Think: what happens when ice warms up?



EVAPORATION AND CONDENSATION

Oak National Academy: The water cycle

Follow water as it evaporates, condenses and falls as rain. Explore this Year 4 lesson with an adult.

Try it: draw and label water's journey.



MIXTURE DETECTIVES

Science Sparks: Oil-spill investigation

Investigate oil and water using vegetable oil. With an adult, compare materials for cleaning up your model spill.

Predict: will oil and water stay mixed?



HISTORY OF MEDICINE

Science Museum Group: Anaesthesia

Look closely at a museum model of the 1846 operation linked to your topic. Read the description with a teacher or parent.

Discuss: how did anaesthetics help patients?



BUBBLE SCIENCE

Science World: Bubbles

Explore bubble activities using soap and water. Ask an adult to choose an activity and help you follow the instructions.

Wonder: what is trapped inside a bubble?



BIG QUESTION: How can heating and cooling change materials?

Think like a scientist: follow instructions, protect your eyes and never taste experiment mixtures.