The Island of Scientific Secrets

YEAR 5 | USEFUL WEBSITES

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

WHY IS GOLD VALUABLE?

Royal Society of Chemistry: Gold

Explore gold's properties, uses and history. Ask an adult to choose suitable sections and help with unfamiliar scientific words.

Explain: why is gold useful for jewellery?



DISSOLVING DETECTIVES

Oak National Academy: Soluble or not?

Explore a Year 5 lesson about soluble and insoluble materials. Discuss why dissolving is different from melting.

Predict: what will dissolve in water?



SEPARATING MIXTURES

Oak National Academy: Recover solids

Discover ways to recover insoluble solids from mixtures. Explore the lesson and activities with a teacher or parent.

Choose: when would you use a filter?



CAN WE REVERSE IT?

Oak National Academy: Reversible changes

Investigate how mixing and dissolving can be reversible. Follow the Year 5 lesson with an adult and discuss the examples.

Think: how could you recover dissolved salt?



MAKING NEW MATERIALS

Oak National Academy: Irreversible changes

Explore changes that form new materials. Ask an adult to guide the lesson and supervise any practical activity.

Explain: what evidence shows a change?



MAP SKILLS FOR EXPLORERS

Ordnance Survey: Mapzone

Explore map-reading activities and games. Practise interpreting symbols and using map skills with a teacher or parent.

Draw an island map with symbols and a key.



BIG QUESTION: How can materials and map skills unlock the island's secrets?

TOPIC CHALLENGE: Draw an island treasure trail with three materials challenges along the route.