Use What You Know · Year 4 Science

Five sample cards · one from each Science area

from Familiar Frontiers

Five-card sample · print A4

Question cards for A4 printing, with four cards per sheet.

- Print at 100% (actual size) on A4.
- Cut along the dashed lines.
- Discuss each solution together.
- Find the answers in the screen sample.

Use familiar science to solve new problems. Selected learning for Year 4 in England.

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UseWhatYouKnow-Y4-Science-Sample-Print-A4.pdf

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Y4S-001

LIVING THINGS AND THEIR HABITATS

Two signs for one pond

Pond keepers are making two signs: “Has feathers” and “Seen swimming”. Use only the records here.

Animal	Feathers?	Seen swimming?
Mallard	Yes	Yes
Frog	No	Yes
Robin	Yes	No

Which animal belongs on both signs? Which sign can include the frog? Explain using the records.

Y4S-002

ANIMALS INCLUDING HUMANS

The bottle model

The food pipe pushes food to the stomach. The stomach churns food with juices that help break it down. In a model, a tube carries soft lumps into a bottle. Shaking the bottle mixes them with water.

Which model part acts like the stomach? Give a reason and say one way the water differs from real stomach juice.

Y4S-003

STATES OF MATTER

The chilled marker

Two clear tubes are partly filled with water at 4 °C and sealed. One has dye in its water. A liquid flows to fit the space it is in. The dyed water is easier to see moving when the tubes tilt.

What extra observation would show the clear water is a liquid too?

Y4S-004

SOUND

The paper rider

A vibration is a quick back-and-forth movement. A paper dot rests on a tight drum skin. When the drum is tapped, the dot dances while the drum sounds. The dot stops moving when the skin is held still and the sound stops.

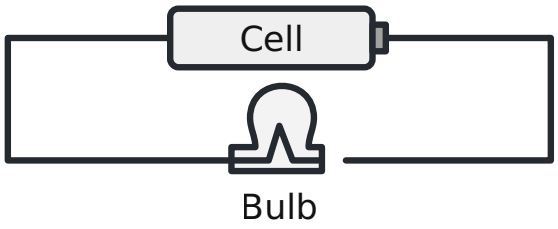
What does the dot help you notice about the skin while it makes sound? Explain.

Y4S-005

ELECTRICITY

A wire out of reach

A bulb lights if it is working and joined in a complete loop from one end of a cell to the other. The cell and bulb work.



Point to the break. Where should the loose wire end go to make the bulb light?