Use What You Know · Year 5 Science

50 challenge cards · ten sessions

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.
- All five cards use secure earlier learning and facts printed on the card.
- Find the answers in the screen sample.

Use familiar science to solve new problems. Selected learning for Year 5 in England. Begin with start-ready cards, then choose by the teaching each card needs.

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UseWhatYouKnow-Y5-Science-Sample-Print-A4.pdf

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Y5S-001

LIFE CYCLES

The pond diary

A nature centre is making one display about growing after hatching. Its diary shows two animals.

Animal	Just hatched	Adult
Frog	Tail, no legs	Four legs, no tail
Duck	Two legs, bill	Two legs, bill

Both animals hatch from eggs. Which changes body shape more as it grows? Use one clue about each animal.

Y5S-002

HUMAN DEVELOPMENT

The growing gap

The graph shows one child's height on three birthdays. A caption says the child grew more from age 4 to 6 than from age 2 to 4.



Do the readings support the caption? Use both height gains.

Y5S-003

MATERIALS

A lid for the logbook

A keeper needs a cover for a paper logbook. Staff must read the page without taking the cover off in the rain. Three sheets were tested.

Sheet	Water through?	Words readable?
A	No	No
B	Yes	Yes
C	No	Yes

Which sheet should the keeper choose? Use both test results for that sheet.

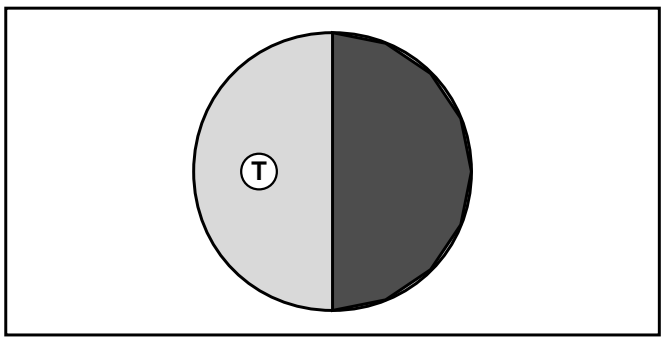
Y5S-004

EARTH AND SPACE

Lights over the island

A fixed lamp on the left lights the pale half of this model Earth. Town T starts there. The globe makes half a turn around its upright axis, the line from the top pole to the bottom pole.

Simplified model



Will the town have day or night after the turn? Explain using the model.

Y5S-005

FORCES

The sliding parcel

At a depot, a parcel slides along a level track. Friction between the parcel and the track slows it. Each run uses the same parcel.

Run / surface	Start (cm/s)	Stop distance (cm)
1 / plastic	80	60
2 / felt	120	52
3 / felt	80	25

Which two runs compare just the surfaces? On which surface did the parcel slide a shorter distance in that pair? Use the table.