Use What You Know · Year 3 Mixed Subjects

50 challenge cards · ten sessions · seven subjects

from Familiar Frontiers

Five-card sample · screen

Five start-ready cards. Each challenge is followed by its answer.

- One card per page; the answer is on the next page.
- Choose by readiness using the Tutor Notes. The deck has selective curriculum coverage.

Apply familiar knowledge to new situations. Selected learning for Year 3 in England. Start with the cards marked start-ready, then choose other cards by the teaching they need.

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UseWhatYouKnow-Y3-Mixed-Sample-Screen.pdf

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Keys in the hall

Leo was painting a card. He heard Gran's keys at the door and put the card behind a book. 'Her birthday is tomorrow,' he whispered to Sam.

Why did Leo hide the card? Use a clue from the story.

Answer

He wanted to keep Gran's birthday card a surprise, so he hid it when he heard her keys at the door.

How to work it out

Leo hides the card just as Gran arrives. He whispers that her birthday is tomorrow. Those details suggest the card is for Gran and he does not want her to see it yet. The answer can use either clue if it links the clue to keeping the card secret from Gran.

What mattered

The reason is not stated directly. Link a clue to why he hides the card.

The rock groups

The class groups rocks. To join this group, a rock must feel rough and leave crumbs when rubbed.

Rock	Feel	Rub test
P	Rough	Crumbs
Q	Rough	No crumbs
R	Smooth	Crumbs

Which rock goes in this group? Explain why the other two do not.

Answer

P. Q leaves no crumbs, and R feels smooth.

How to work it out

P has both observations needed for the group. Q feels rough, but rubbing it did not leave crumbs. R left crumbs, but feels smooth. Each of those two rocks only matches one part of the rule.

What mattered

Use both observations to classify each rock.

Home with twelve

A collector starts with an empty bag. She visits stops in table order, adding both groups at each stop. She goes home when she has 12 things.

Stop	Pebbles	Shells
Hut	3	2
Bridge	4	3
Gate	7	5

Which stop is that? Show your count.

Answer

Bridge. There are 5 things from Hut and 7 more from Bridge, making 12.

How to work it out

At the Hut she collects 3 pebbles and 2 shells, making 5. At the Bridge she collects 4 pebbles and 3 shells, making another 7. Together they make 12, so she goes home from the Bridge. The Gate would add 12 things by itself, but it is the next stop and she never needs to go there.

What mattered

Keeping the first stop's count when adding the two groups from the next stop.

The shelter square

The shelter is on a dry square beside both the Gate and Pond. Beside means sharing a side. Key: G Gate, P Pond, D dry, W wet.

Row	A	B	C
1	G	W	D
2	D	P	D
3	W	D	W

Name the square, letter first. Explain.

Answer

A2. It is dry and shares a side with G and P.

How to work it out

A2 touches Gate A1 and Pond B2 along sides. B1 is the only other square sharing a side with both, but the key says W means wet. A2 is dry.

What mattered

Use the key and check both landmarks against the same square.

A cover for the window

A model window needs light and must keep rain out. A clear waterproof sheet covers the opening but has a hole. A clear waterproof patch covers the hole, but is too small for the whole window. Rain can get through the hole.

How should you fit both pieces? Explain.

Answer

Cover the opening with the sheet and seal its hole with the clear patch. Light still gets through and rain cannot enter the hole.

How to work it out

The full sheet is big enough to cover the opening. Put the waterproof patch over the hole so rain cannot get through it. Both pieces are clear, so the covered window can still let light in.

What mattered

Combine parts to meet both design needs: cover the opening, seal the leak and keep it clear.