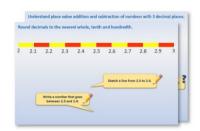
Week 15, Day 1

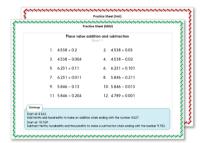
Logic puzzles

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the Learning Reminders.

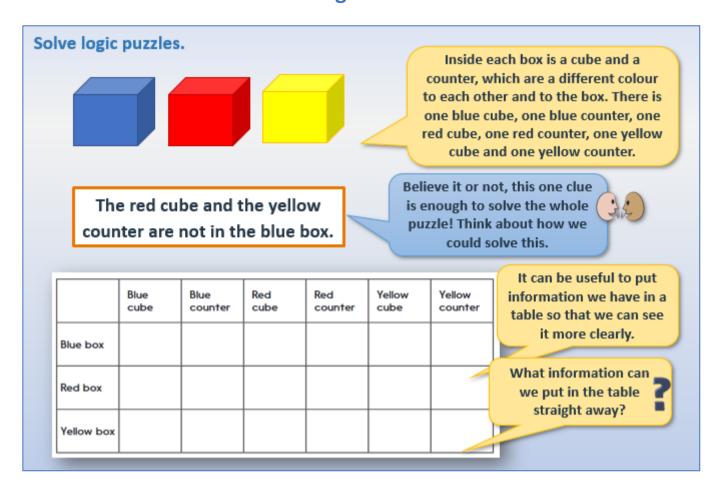


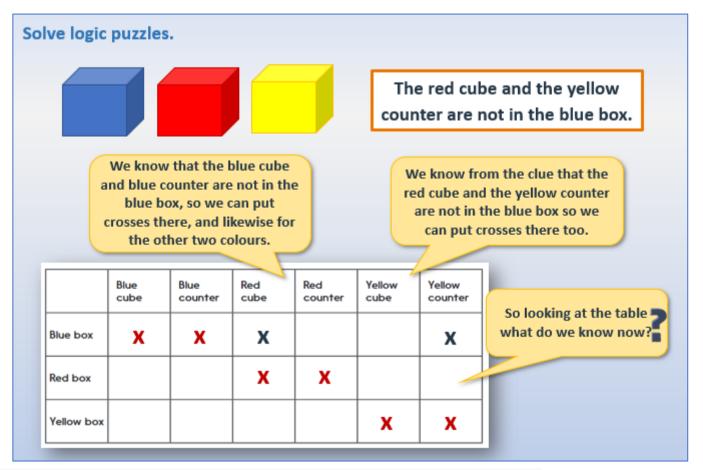
Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.



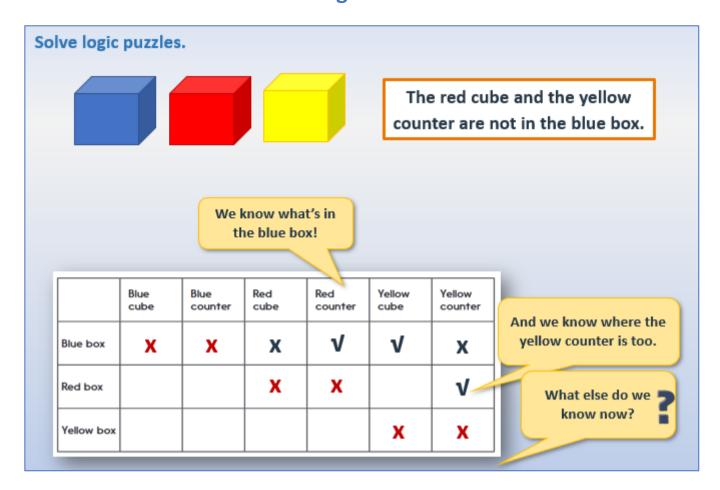
3. Think you've got it? Have a go at the **Investigation**.

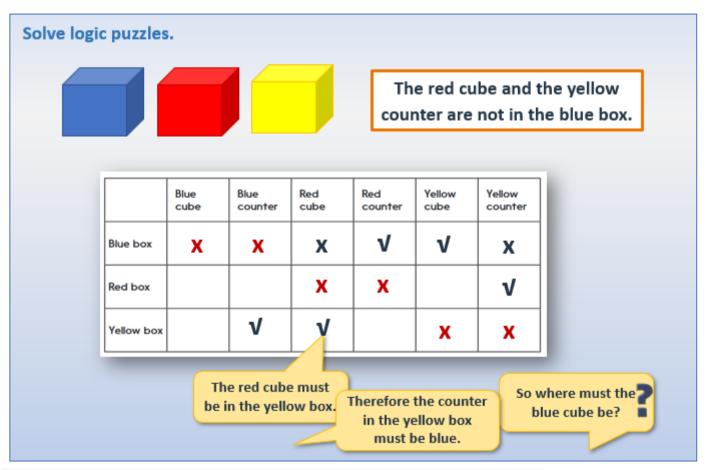
Learning Reminders



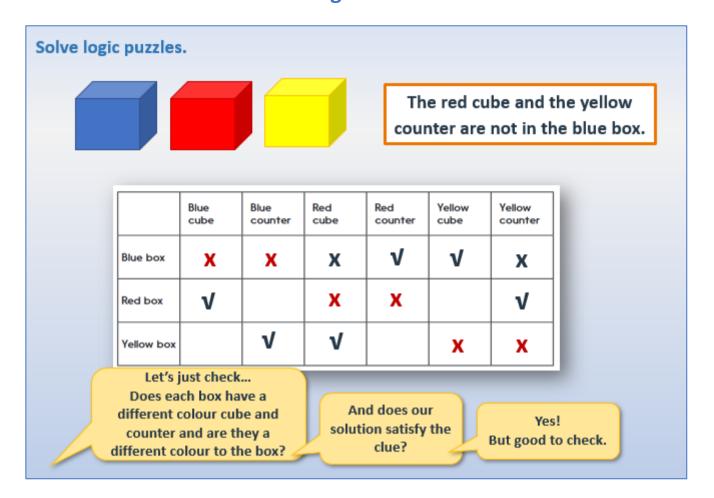


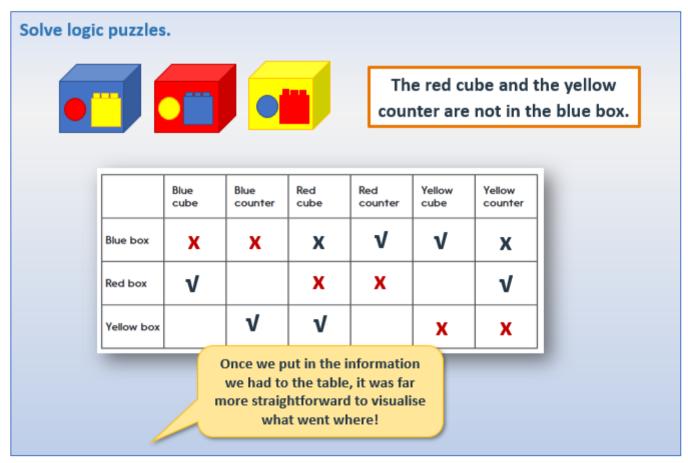
Learning Reminders





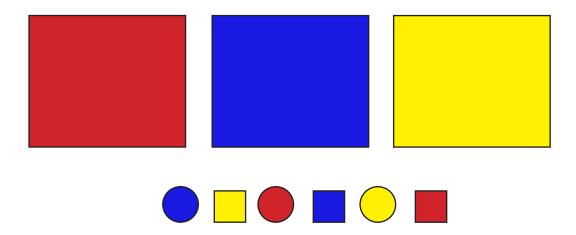
Learning Reminders





Practice Sheet All Children Logic puzzles

There are three boxes, one blue, one red and one yellow. Inside each box is one cube and one counter, which are a different colour to each other and to the box.



There is one blue cube, one blue counter, one red cube, one red counter, one yellow cube and one yellow counter.

With a partner, use logic to work out which boxes each of the counters and cubes must be in, given just this one clue:

1. The yellow counter is in the blue box.

Now have a go at this Challenge!

Practice Sheet Hot

Make up a different arrangement of cubes, counters and boxes. Write just one clue and ask another pair to use it to solve the puzzle.

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Practice Sheet All Children Logic puzzles

Blue box	
Red box	
Yellow box	

	Blue cube	Blue counter	Red cube	Red counter	Yellow cube	Yellow counter
Blue box						
Red box						
Yellow box						

	Blue cube	Blue counter	Red cube	Red counter	Yellow cube	Yellow counter
Blue box						
Red box						
Yellow box						

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Practice Sheet Answers

Practice Sheet (All Children)

	Blue cube	Blue counter	Red cube	Red counter	Yellow cube	Yellow counter
Blue box	х	X	/	X	X	/
Red box	х	/	х	х	/	х
Yellow box	/	x	x	/	х	x

Investigation Colour conundrum

You will need:

· Red, blue, green and yellow colouring pencils.

What to do

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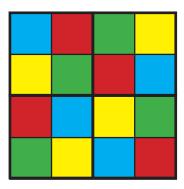
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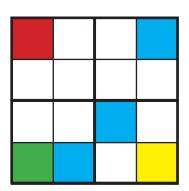
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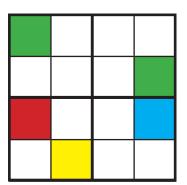
C.

• Blue, red, green and yellow squares are arranged in the grid below so that each 2 by 2 box, each row, column **and** corner-to-corner diagonal contains just one square of each colour:



• These grids have just been started. Can you complete them?





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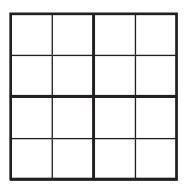
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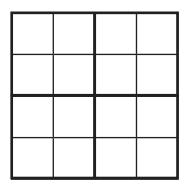
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 Use these empty grids to design similar challenges for someone else to solve (check that they 'work' before passing them across).





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