

Maths Through the Year: Record of activities



Spring 2020 (First half)

Year	Event	Date	Name of Activity	Mathematics Topics
Reception	RSPB Big Schools' Birdwatch	6 th January – 21 st February	Shape owl	Shape, space and measures
	RSPB Big Garden Birdwatch	25 th – 27 th January		
1	Brain Teaser Month	January	Linking shapes	Geometry – properties of shapes
	International Puzzle Day	29 th January		
2	World Day of the Snowman	18 th January	Symmetrical snowman	Geometry – properties of shapes
3	Brain Teaser Month	January	KenKen	Number – addition and subtraction Number – multiplication and division
	International Puzzle Day	29 th January		
4	Brain Teaser Month	January	Clocks in the mirror	Measurement
	Backwards Day	31 st January		
5	RSPB Big Schools' Birdwatch	6 th January – 21 st February	Order the birds	Number – number and place value
	RSPB Big Garden Birdwatch	25 th – 27 th January		
6	Brain Teaser Month	January	Logic puzzle	Use reasoning and logical thinking skills
	International Puzzle Day	29 th January		

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Shape owl



We're celebrating the RSPB Big Schools' Birdwatch and Big Garden Birdwatch!

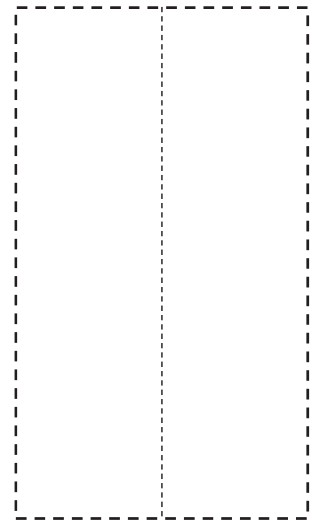
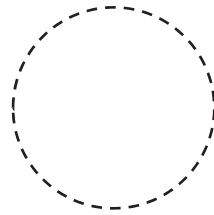
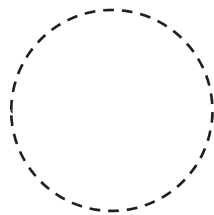
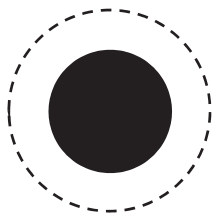
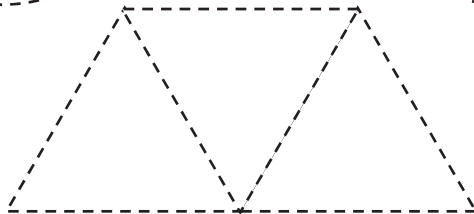
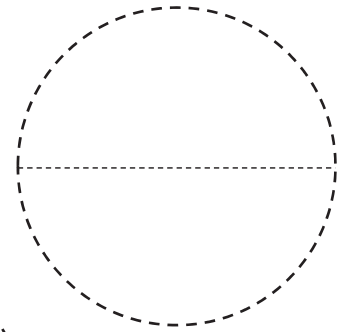
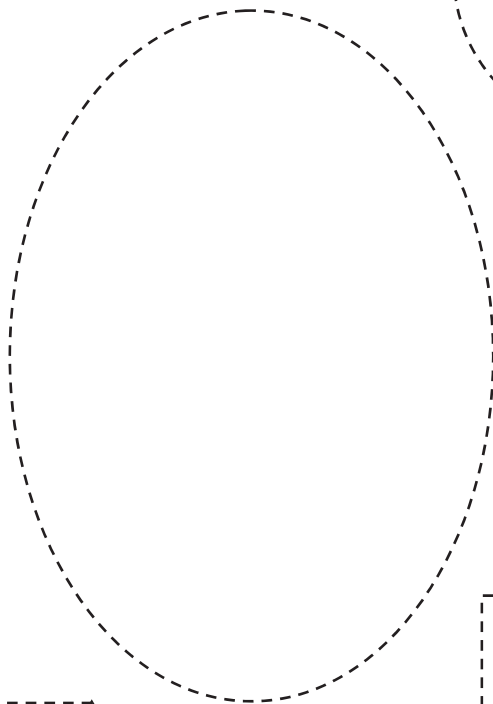
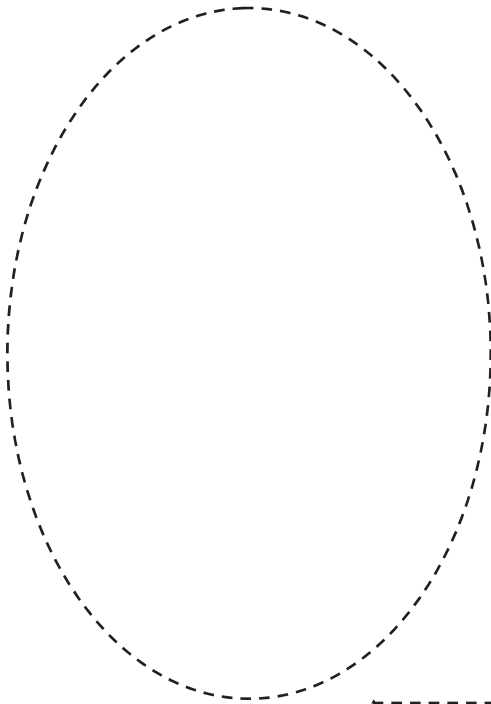
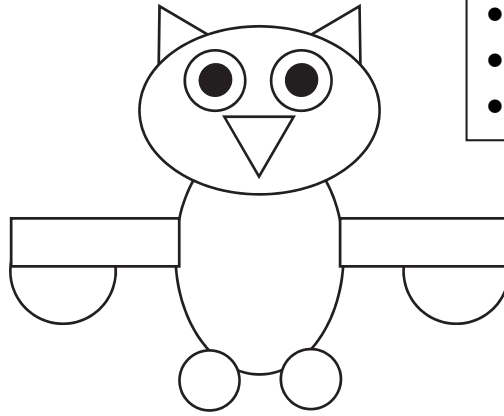
Cut out the shapes below.

Arrange and glue the shapes onto the sheet of paper to make this owl.

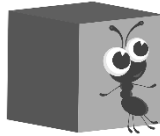
Then colour your owl.

You will need:


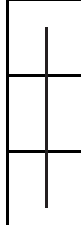
- scissors
- sheet of paper
- glue
- coloured pencils



Linking shapes





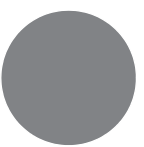


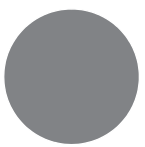




We're celebrating Brain Teaser Month and International Puzzle Day!

Draw lines going side to side  and up and down  through the squares to connect matching shapes.

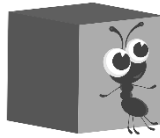
All squares on the grid must have one line passing through it.

Line cannot cross  or go corner to corner. 



The stars have already been matched.

Linking shapes




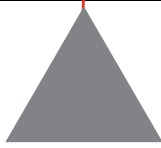
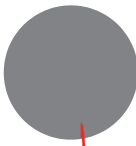
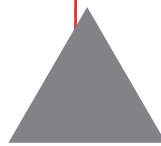
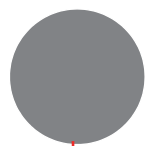




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Draw lines going side to side  and up and down  through the squares to connect matching shapes.

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Line cannot cross  or go corner to corner. 

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Symmetrical snowman



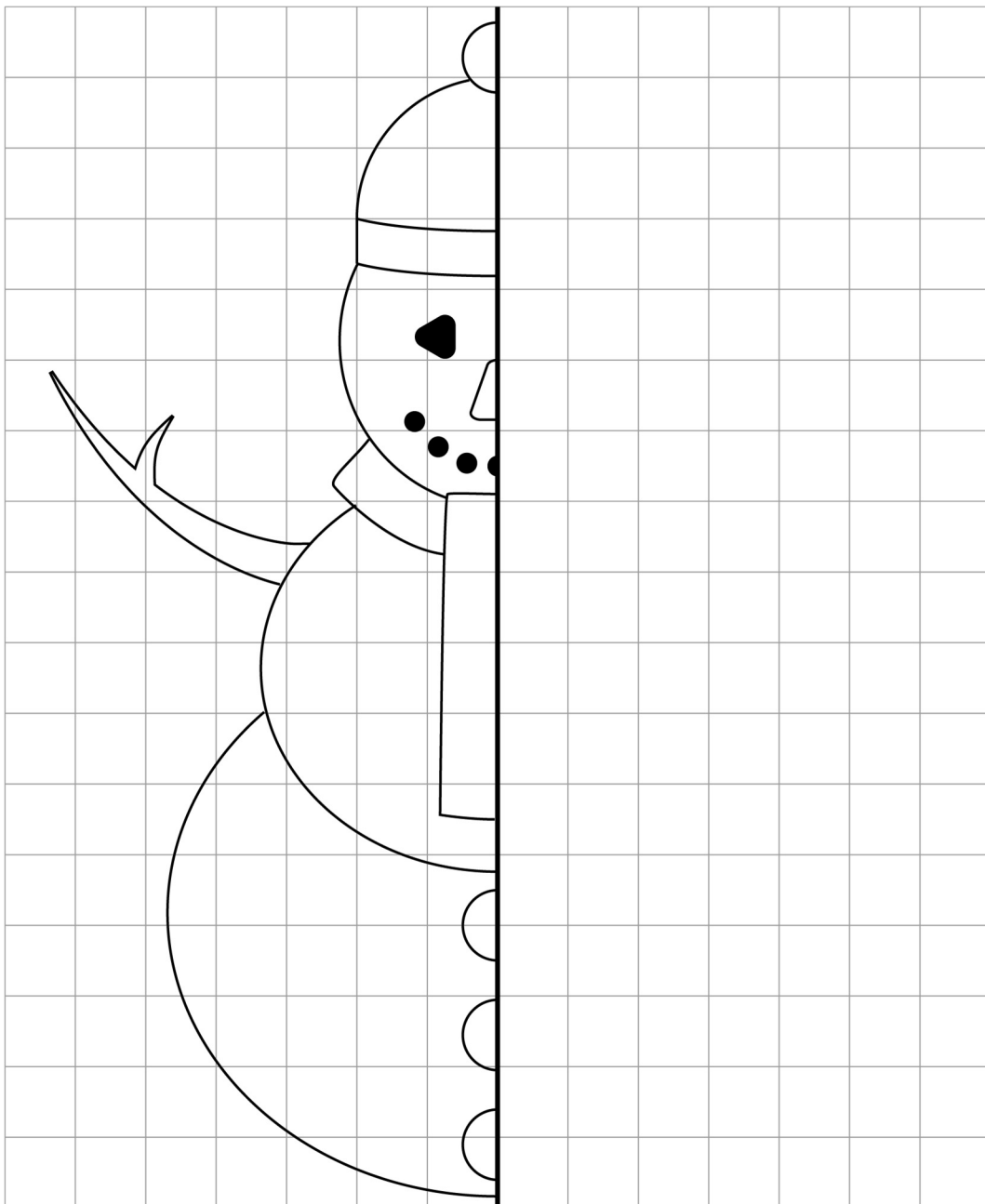
We're celebrating World Day of the Snowman!

Use the grid to complete the drawing of a symmetrical snowman.

Then, using coloured pencils colour the snowman, making sure that he is still symmetrical along the vertical line of symmetry.

You will need:

- pencil
- coloured pencils



Symmetrical snowman



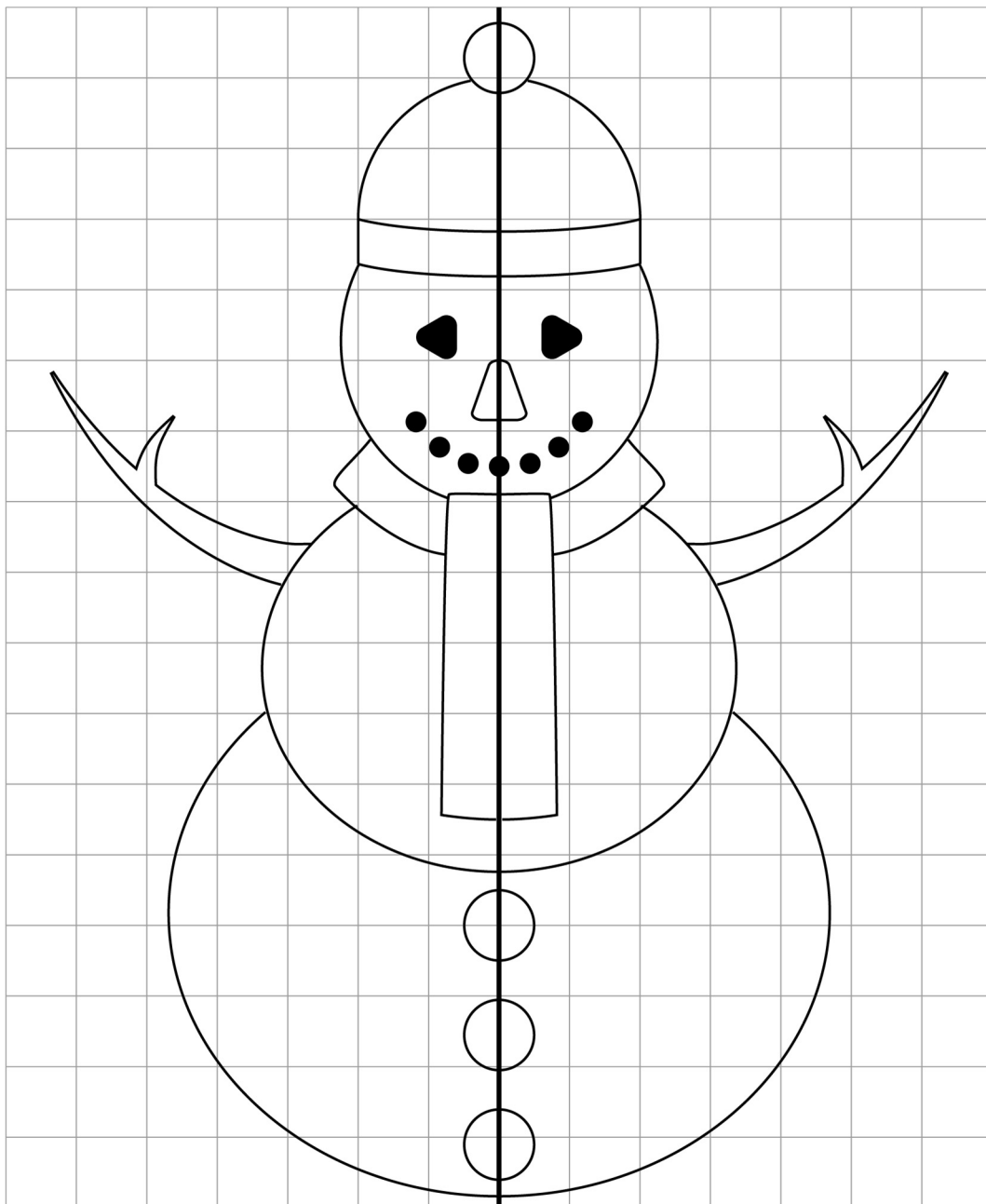
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You will need:

- pencil
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We're celebrating Brain Teaser Month and International Puzzle Day!

Complete each puzzle by writing a digit from 1 to 4 in each square in the grid. Each digit can be used only once in each row and column.

A target number and operator is given for each block with a bold black outline.

For example, $10 +$ means the target number is 10 and the operator is $+$, so the digits in that block must add up to 10.

Puzzle 1

$8 +$		$3 -$	$8 \times$ 4
3	$7 +$		
$5 +$		$6 \times$	$2 -$

Puzzle 2

$4 +$	$2 \div$	$2 -$	$7 +$
	2		
$8 \times$	$4 +$	$9 +$	1

Puzzle 3

$3 \times$	1	$10 +$	
$2 -$			$1 -$
$7 +$			3
$2 \div$		$4 +$	

Puzzle 4

$2 \div$		$3 \times$	
$6 +$		$7 +$	$12 \times$ 4
2			
$7 +$		$1 -$	

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Puzzle 1

$8 +$ 2	3	$3 -$ 1	$8 \times$ 4
3	$7 +$ 1	4	2
$5 +$ 4	2	$6 \times$ 3	$2 -$ 1
1	4	2	3

Puzzle 2

$4 +$ 1	$2 \div$ 4	$2 -$ 3	$7 +$ 2
3	2	1	4
$8 \times$ 4	$4 +$ 3	$9 +$ 2	1
2	1	4	3

Puzzle 3

$3 \times$ 3	1	$10 +$ 2	4
$2 -$ 1	3	4	$1 -$ 2
$7 +$ 2	4	1	3
$2 \div$ 4	2	$4 +$ 3	1

Puzzle 4

$2 \div$ 4	2	$3 \times$ 3	1
$6 +$ 1	3	$7 +$ 2	$12 \times$ 4
2	1	4	3
$7 +$ 3	4	$1 -$ 1	2

Order the birds



We're celebrating the RSPB Big Schools' Birdwatch and Big Garden Birdwatch!

Look at these facts about some of the most common birds in the UK.

Bird	Average weight (grams)	Average wingspan (cm)	Estimated UK population (pairs)
Blackbird	125	36	5.1 million
Blue tit	12.5	18	3.6 million
Chaffinch	29	27	6.2 million
Great tit	22	23	2.5 million
House sparrow	38	21	5.3 million
Robin	21	21	6.7 million
Woodpigeon	614	78	5.4 million

Order the birds, starting with the lightest bird.

Order the birds, starting with the bird with the longest average wingspan.

Order the birds, starting with the bird with the largest UK population.

Write statements comparing the weights, wingspans and populations of the most common birds in the UK.

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Order the birds, starting with the lightest bird.

Blue tit, Robin, Great tit, Chaffinch, House sparrow, Blackbird, Woodpigeon

Order the birds, starting with the bird with the longest average wingspan.

Woodpigeon, Blackbird, Chaffinch, Great tit, (House sparrow, Robin), Blue tit

Order the birds, starting with the bird with the largest UK population.

Robin, Chaffinch, Woodpigeon, House sparrow, Blackbird, Blue tit, Great tit

Write statements comparing the weights, wingspans and populations of the most common birds in the UK.

Pupil's statements will vary.

Logic puzzle



We're celebrating Brain Teaser Month and International Puzzle Day!

Ava, Liam, Mia, Elijah and Sophia go to a restaurant to eat.

Each person chooses a different main course, dessert and drink.

The main courses they choose are:

- fish and chips
- chicken salad
- hamburger
- vegetable curry
- pizza

The desserts they choose are:

- lemon tart
- chocolate brownie
- cheesecake
- ice cream
- apple crumble

The drinks they choose are:

- apple juice
- cola
- lemonade
- orange fizz
- orange juice

Using the clues and the table below, work out which main course, dessert and drink each person has.

1. Mia has lemonade. She does not have cheesecake. The person who has the cheesecake also has the chicken salad.
2. The person who has the hamburger has cola to drink.
3. Elijah has the chocolate brownie and Ava has the pizza. Both Elijah and Ava have fruit juice.
4. The person who has apple crumble for dessert has cola to drink, and it is not Sophia.
5. The person who has fish and chips drinks apple juice.
6. The person who has lemonade does not have the lemon tart.

Person	Main course	Dessert	Drink
Mia			lemonade

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Person	Main course	Dessert	Drink
Mia	vegetable curry	ice cream	lemonade
Sophia	chicken salad	cheesecake	orange fizz
Elijah	fish and chips	chocolate brownie	apple juice
Ava	pizza	lemon tart	orange juice
Liam	hamburger	apple crumble	cola