

Lewis Class

Year 3 Maths (week beginning 22.06.20)

Here are some links to websites that have videos to support your child's learning in Maths. If you are struggling to find time to sit down with them, they could watch and make notes independently. These are not necessarily linked to the current topic but are still useful tools for learning. They can also be used as additional learning if needed.

<https://www.bbc.co.uk/bitesize/subjects/z826n39>

<https://www.thenational.academy/online-classroom/year-3/maths#subjects>

Practise multiplication and division: <https://whiterosemaths.com/homelearning/year-3/> (week 4)

Properties of Shape

Task 1

- Horizontal and vertical lines



A line that runs from left to right across the page is called a horizontal line.

The word horizontal comes from the word 'horizon' – this might help you to remember it.

A line that runs straight up and down the page is called a vertical line.

Find 3 horizontal and vertical lines in your house/in class!

Here are some flags.

a) Which flags have horizontal stripes?

1.



2.



3.



4.



b) Which flags have vertical stripes?

1.



2.



3.

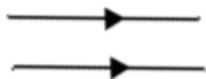
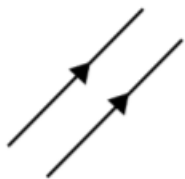


4.

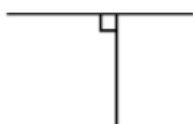


Task 2

- Parallel and Perpendicular lines



Parallel lines are lines that are an equal distance apart and will never meet, no matter how far they are extended.



Perpendicular lines are **lines** that cross another **line** at a 90° angle. Each corner meets at a 90° angle. This is also known as a right angle.

Watch this video for more information about parallel and perpendicular lines:

<https://www.bbc.co.uk/bitesize/topics/zb6tyrd/articles/zp327hv>

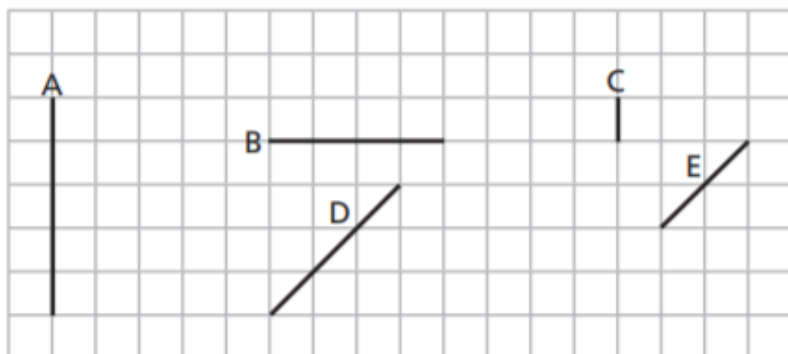
Draw a line that is parallel to this one.



Draw a line that is perpendicular to this one.



Five lines are drawn on the grid.



a) Which two pairs of lines are parallel?

b) Which two pairs of lines are perpendicular?

Angles and shape, lessons 6, 7, 8 and 9 - <https://classroom.thenational.academy/subjects-by-year/year-3/subjects/maths>

Task 3

- 2D shapes

Recap from year 2 – draw and label the properties of 5 2D shapes.

Refer to the information sheet about 2D shapes to check your 2D shapes.


Choose some of these two 2-D shapes and write a description of their properties for those at home. See if Miss Dave or I can guess your shape!



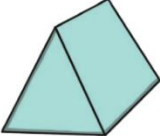
Angles and shape, lessons 11, 12, 14 - <https://classroom.thenational.academy/subjects-by-year/year-3/subjects/maths>

Task 4


- 3-D shapes



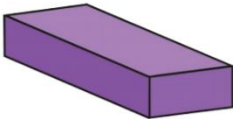
square-based pyramid



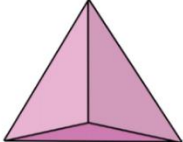
triangular prism



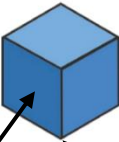
cone




cuboid




tetrahedron



cube



cylinder



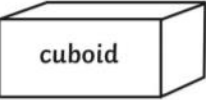
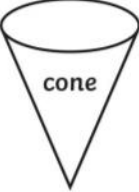
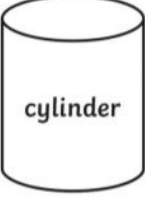

sphere

Face – the flat surface of a 3-D shape.

Edge – the line where two faces meet.

Vertex (vertices) – the point where the edges meet.

Copy and complete to show the properties of these 3 – D shapes:

 <p>cuboid</p>	 <p>cone</p>	 <p>cylinder</p>	 <p>sphere</p>
edges _____	edges _____	edges _____	edges _____
faces/surfaces _____	faces/surfaces _____	faces/surfaces _____	faces/surfaces _____
vertices _____	vertices _____	vertices _____	vertices _____

What is the same and what is different about these two shapes?

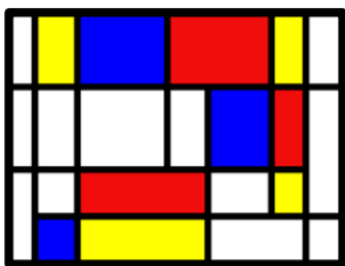


Choose two other shapes and say what is the same and what is different about them.

Angles and shape, lessons 13 and 15 - <https://classroom.thenational.academy/subjects-by-year/year-3/subjects/maths>

Task 5

- Reasoning and problem solving



How many horizontal and vertical lines can you spot in this image by Mondrian?

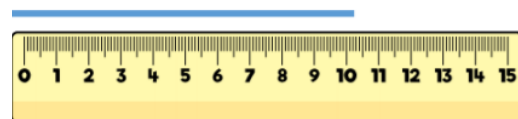
Create your own piece of art work using only horizontal and vertical lines.

These lines are NOT parallel.



Convince me.

Alex measures the line.



She says it is 10 cm 4 mm

Is Alex correct?
Explain why.

Rosie describes a 2-D shape.



My shape has 2 pairs of parallel sides. The lengths of the sides are not all equal.

Draw the shape that Rosie is describing.

Could this square be Rosie's shape?













Explain why.

Throughout the week - practise multiplication tables:

You could:

- Focus on whichever one you find difficult to remember and write out in a random order to improve your rapid recall.
- Play on Hit the Button - focus on number bonds, halves, doubles and times tables - <https://www.topmarks.co.uk/maths-games/hit-the-button>
Do a multiplication dance – <https://www.bbc.co.uk/teach/supermovers/times-table-collection/z4vv6v4>

Name		Sides	Vertices
triangle		3	3
circle		1	0
square		4	4
rectangle		4	4
pentagon		5	5
hexagon		6	6
oval		1	0
rhombus		4	4
trapezium		4	4
parallelogram		4	4

