

Lewis Class

Year 4 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>

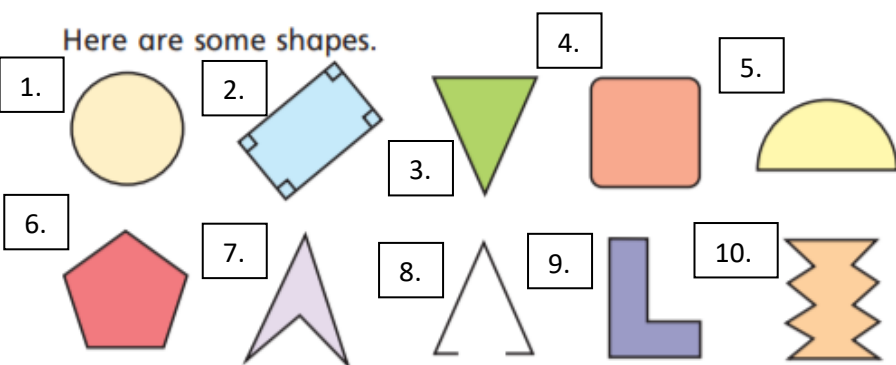
<https://www.thenational.academy/online-classroom/year-4/maths#subjects>

Properties of shape

Task 1

- Polygons

Here are some shapes.



A **polygon** is a flat, two-dimensional (2D) shape with straight sides that is fully closed (all the sides are joined up). The sides must be straight. **Polygons** may have any number of sides.

The word **polygon** comes from the **Greeks**, like most terms in geometry, which they invented. It simply **means** many (poly) angles (gon).

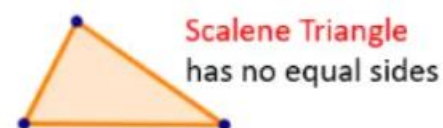
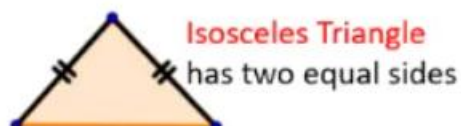
Which shapes are polygons? Justify your answers by explaining how you know.

Look for polygons around your household, how many can you find? Can you name the shape?

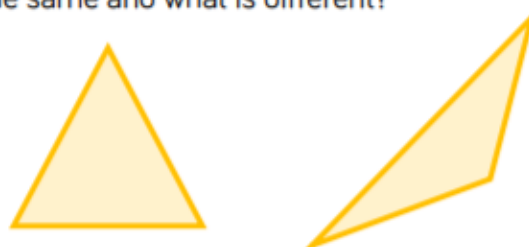
Task 2

- Triangles

A triangle is a **polygon** with three sides and three angles. It is a **2D shape**.

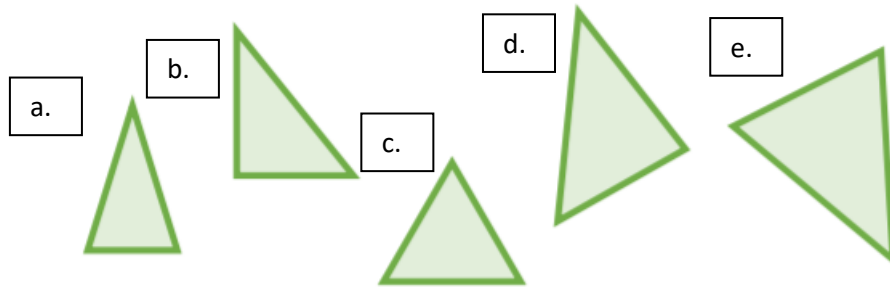


Look at these triangles.
What is the same and what is different?



Consolidate here: <https://www.bbc.co.uk/bitesize/topics/zvmxsbk/articles/zggsfrd>

Label each of these triangles: isosceles, scalene or equilateral. Use a ruler to check.



Task 3

- Triangles

Draw 3 isosceles, 1 equilateral and 3 scalene triangles. Ensure you use a ruler and label each triangle clearly.

Reflect: which triangle was the hardest to draw?

Shape and Symmetry, lessons 8, 9 and 10 - <https://classroom.thenational.academy/subjects-by-year/year-4/subjects/maths/>

Task 4

- Quadrilaterals

A **quadrilateral** is a four-sided two-dimensional shape. The following 2D shapes are all **quadrilaterals**: square, rectangle, rhombus, trapezium, parallelogram and kite.



Square



Rectangle



Rhombus



Trapezium



Parallelogram



Kite

More information can be found here:

<https://www.ducksters.com/kidsmath/quadrilaterals.php>

Oak Academy lesson (comparing and classifying quadrilaterals):

<https://classroom.thenational.academy/lessons/to-compare-and-classify-quadrilaterals>

Use the criteria to describe the shapes.



four sides

2 pairs of parallel sides

four equal sides

polygon

1 pair of parallel sides

4 right angles

Which criteria can be used more than once?

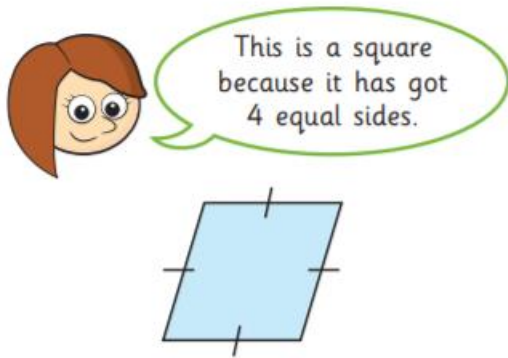
Which shapes share the same criteria?

Draw 5 different quadrilaterals and label each one with its properties.

Task 5

- Reasoning and problem solving

Copy and complete this table using different quadrilaterals:



Do you agree with Rosie?

Explain your answer.

	4 equal sides	2 pairs of equal sides	1 pair of parallel sides
4 right angles			
No right angles			

Which box cannot be completed?

Explain why.

You will need:

Some 4 centimetre straws
Some 6 centimetre straws

How many different quadrilaterals can you make using the straws?

Calculate the perimeter of each shape.

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>