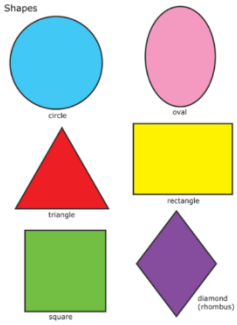
# Marvellous Maths Year R w/c 1st February



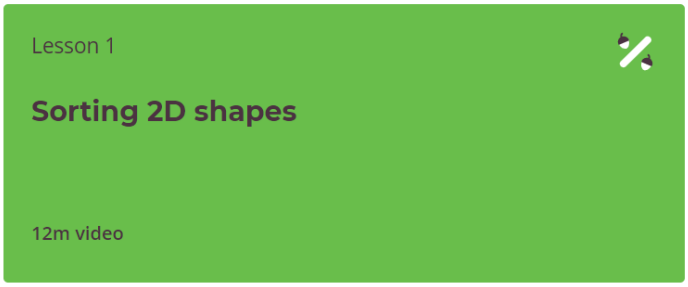

Learning objectives:

To begin to use mathematical names for "solid" 3D shapes and "flat" 2D shapes.
To explore characteristics of everyday objects.
To use mathematical language to describe shapes.
To recognise, create and describe patterns

**Monday**

Click on the link below and watch the video about sorting 2D shapes.

https://classroom.thenational.academy/units/shape-and-pattern-dba1




*Follow on tasks*

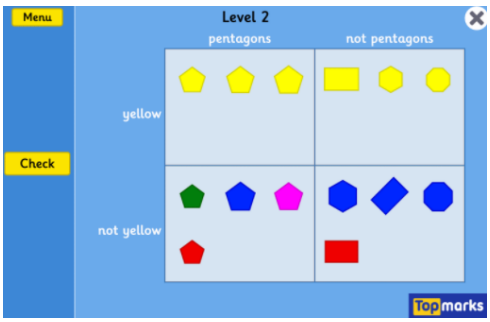
Please continue to play the game suggested in the video where your child finds a selection of objects to sort into one curved side and no curved side and then shapes that have 4 corners and shapes that don't have 4 corners. You and your child could also think of more ways to sort their objects.

You could also play a game where you ask your child to find something that is a circle, a triangle, a square or a rectangle.

If your child would prefer a cut and stick activity, I have included one on the website.

For a challenge, your child could try the game below:

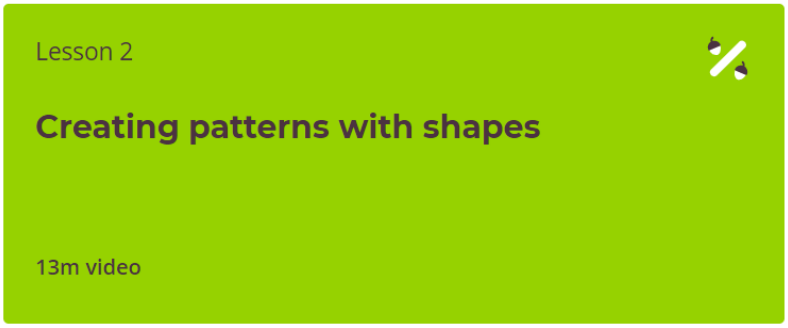
https://www.topmarks.co.uk/carroll-diagrams/2d-shapes



**Tuesday**

Before you start this lesson you will 3 different coloured pens or pencils and the "2D shape patterns" sheet on the website. Click on the link below and watch the lesson.

Shape and pattern - Oak National Academy (thenational.academy)

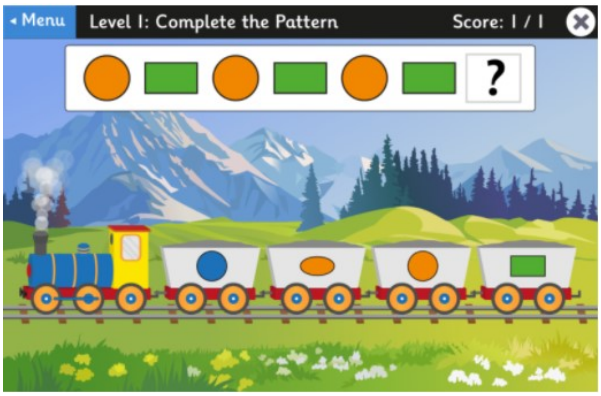



*Follow on task*

Ask your child to complete the 2D shape patterns using the sheet from the website. They can do as many patterns as they like! I have also added a "repeating pattern" sheet where your child needs to complete patterns that have already been started.

In addition, there is a shape pattern game if you click on the following link:

https://www.topmarks.co.uk/ordering-and-sequencing/shape-patterns



**Wednesday**

Before you start this lesson you will need a pencil and the "Wednesday— Finding 3D shapes in the environment" worksheet on the website. Click on the link below and watch the lesson.

Shape and pattern - Oak National Academy (thenational.academy)


*Follow on task*

Ask your child to complete the 3D shape hunt using the sheet from the website (I've also included an optional extension worksheet for those who want a challenge), and then continue the game, either indoors or outdoors.

Some optional ideas for 3D shape games:

- Perhaps you could have a race to see how quickly your child can find a sphere etc?
- Or perhaps your child could build a castle with the 3D shapes they have found, to explore which shapes are best for building with.
- Or place a variety of different 3D shaped objects on a tray, show them, cover them up, take one away and see if they can spot, and say the shape of the object that is missing.


- Perhaps your child could try making 3D shapes from playdough (or, indeed, cookie dough!!)
- If you'd like an optional printable matching activity, see "Wed—3D shape-matching jigsaw" (nb this game gives the cuboid its other name of 'rectangular prism')
- A catchy 3D shape song with shapes in the environment can be found here 3D Shapes I Know (solid shapes song- including sphere, cylinder, cube, cone, and pyramid) - YouTube , or on the website video page:


Some games to practise naming shapes:

3D Shapes Ice Cream Attack Game | Game | Education.com


Dino Crunch: 3D Shapes | Game | Education.com

**Thursday**

Before you start this lesson you will a need a tin, a cereal box, a ball, a cone, round piece of fruit. Click on the link below and watch the "Describing 3D shapes" lesson.

Shape and pattern - Oak National Academy (thenational.academy)


*Follow on task*

Ask your child to play the 'describe the 3D shape' game described in the video. If your child would like to record their findings, you can use the **Thurs - Describe 3D Shape Properties Worksheet** on the website.

You could also play a game where you hide some 3D shapes in a bag and describe which shape you want your child to find: 'Find the shape that has only one curved face' etc. Ask your child to describe a shape for you to identify.

Here's an online game to help your child to practise these skills:

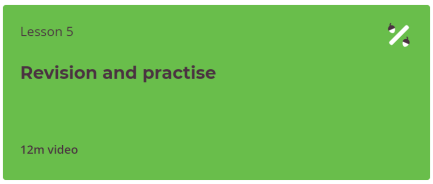
Dino Crunch: Attributes of 2D and 3D Shapes | Game | Education.com


Dino Crunch: Attributes of 2D and 3D Shapes

**Friday**

This lesson combines revision of shapes and patterns with some quickfire number recognition and one more/ less. Click on the link below and watch the "Revision and practise" lesson.

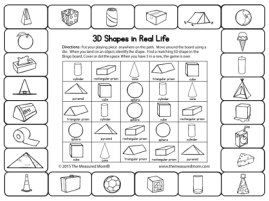
Shape and pattern - Oak National Academy (thenational.academy)

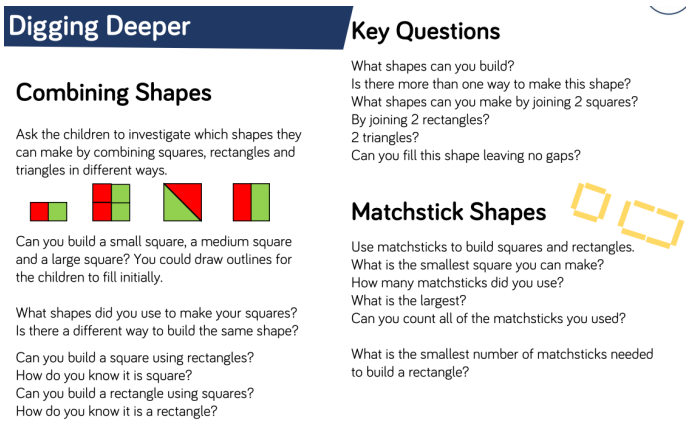


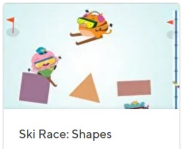

*Follow on task*

Since we've been working on shapes and patterns this week, here are a selection of revision ideas to choose from—I suggest you focus on the things your child finds trickier, rather than easier! Have fun!

There's a recognising **2D and 3D shapes Bingo game** from 2D and 3D shape games - The Measured Mom on the website:

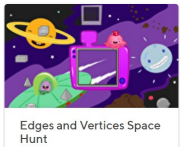



Recognising 2D shapes: Shapes Ski Race Game | Game | Education.com


Make Your Own Pattern Game | Game | Education.com




Edges and Vertices Space Hunt | Game | Education.com