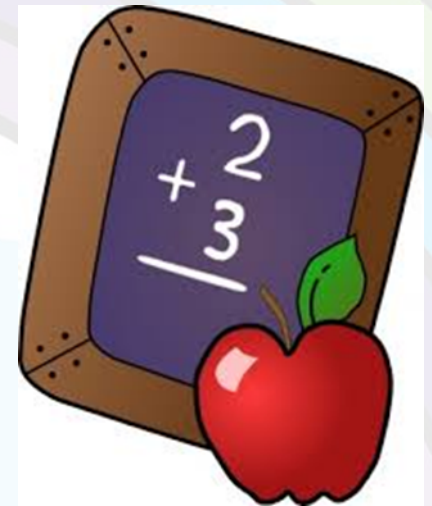


Second Class Maths

March & April 2020





Hi boys & parents,

Welcome to your maths learning for the next two weeks!

Our topics will be:

Week 1: 2D Shapes & Revision

Week 2: 3D Shapes & Revision

Week 1: 2D shapes

Parents, here's what we would like your boys to be able to do by the end of this week;

1. Sort, describe, compare and name 2-D shapes: square, rectangle, triangle, circle, semicircle & oval.
2. Spot the similarities and differences between shapes.
3. Construct and draw 2-D shapes.
4. Combine and partition 2-D shapes.

You will need:

Scissors



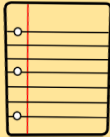
Glue



A pencil



Paper



Your maths eyes

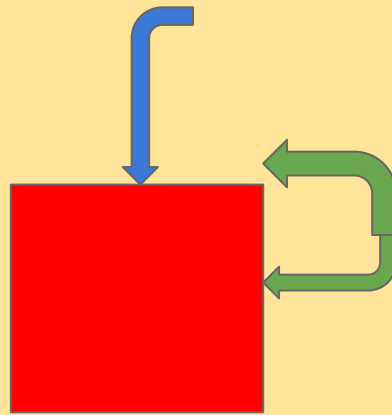


What are 2D shapes?

A 2D shape is a shape that is flat. 2D = 2 dimensional.

2D shapes have sides & corners (vertices).

Take a square for example; Side



Corner or Vertex

2D Shape Vocabulary

Circle 

Square 

Rectangle 

Semi-circle 

Oval 

Triangle 

Pentagon 

Hexagon 

Vertex = Corner

Vertices = Corners

Edge=The line that connects 2 corners/vertices

Face =The flat part of the shape



Shape Investigation

Task 3:

Investigate the following shapes and see what you can find out about them!







Record information about their sides and vertices on the grid.

Print link:

<https://www.twinkl.ie/resource/t-n-2619-properties-of-2d-shapes-activity-sheets>

2D Shape Properties Table

Look carefully at the properties of these 2D shapes. Write your results in the table.

2D Shape	Total Number of Sides	Number of Straight Sides	Number of Curved Sides	Number of Corners	Name of Each Shape
					
					
					
					
					
					

Which Shape?

Task 4:

Cut out the shapes at the bottom of the page and stick them next to their description.

Make sure to count all the sides and corners carefully!

Print link: <https://www.twinkl.ie/resource/t-n-2619-properties-of-2d-shapes-activity-sheets>

2D Shapes: Properties

Cut out the shapes and match them to the correct description.

	6 straight sides 6 vertices This 2D shape is a _____
	3 straight sides 3 vertices This 2D shape is a _____
	No straight sides No vertices This 2D shape is a _____
	4 straight sides 4 vertices This 2D shape is a _____
	4 straight sides all the same length 4 vertices This 2D shape is a _____



Revision: Addition with renaming

Column Addition Practice

a.		b.		c.		d.		e.	
	5 6		7 2		5 9		3 2		7 0
+	2 3	+	1 6	+	4 5	+	3 2	+	2 4
f.		g.		h.		i.		j.	
	5 4		7 9		4 4		2 3		5 8
+	3 2	+	2 6	+	2 6	+	5 9	+	3 7
k.		l.		m.		n.		o.	
	7 8		4 8		5 3		4 2		4 7
+	1 5	+	2 4	+	1 8	+	1 9	+	2 7
p.		q.		r.		s.		t.	
	7 8		3 8		1 6		5 2		2 9
+	1 2	+	3 5	+	4 8	+	3 7	+	4 4
u.		v.		w.		x.		y.	
	6 0		2 8		3 7		6 4		2 8
+	3 7	+	4 6	+	4 5	+	1 7	+	2 3

Column Addition Practice

a.		b.		c.		d.		e.	
	5 6		7 2		5 9		3 9		8 5
+	4 3	+	1 1	+	3 8	+	7 2	+	4 6
f.		g.		h.		i.		j.	
	5 6		9 9		4 3		2 1		5 8
+	7 5	+	2 1	+	2 1	+	6 9	+	4 7
k.		l.		m.		n.		o.	
	9 8		4 8		6 3		7 2		7 5
+	1 5	+	5 7	+	1 2	+	6 8	+	2 8
p.		q.		r.		s.		t.	
	7 3		4 5		2 6		5 5		6 7
+	2 7	+	9 2	+	1 8	+	5 4	+	4 3
u.		v.		w.		x.		y.	
	3 7		8 8		6 2		6 4		5 4
+	3 7	+	4 6	+	1 7	+	1 7	+	5 3

Print link:

<https://www.twinkl.ie/resource/cfe-n-293-2-digit-addition-on-squared-paper-activity-sheet>

Example from Planet Maths page 137;

$$\begin{array}{r} 36 \\ + 7 \\ \hline 43 \end{array}$$


Week 2: 3D shapes

Parents, here's what we would like your boys to be able to do by the end of this week;

1. Describe, compare and name 3-D shapes; cube, cuboid, cylinder, sphere, cone, triangular prism.
2. Identify & count the number and shapes of faces, edges, vertices (corners) in 3D shapes.
3. Identify shapes that stack, roll or slide.
4. Discuss the use of 3-D shapes in their homes such as boxes, packets, containers, a fish-tank
5. Complete practical tasks and problems involving 2-D and 3-D shapes use boxes, cardboard packs or containers in construction activities.
6. Discuss the use of 3-D shapes in their home.
7. Explore the relationship between 2-D and 3-D shapes.

You will need:

****Don't worry if you can't find these items, they are just to help!****

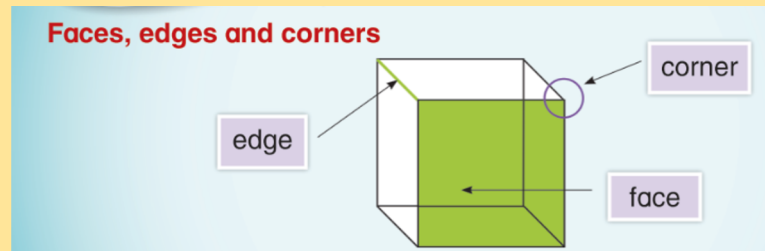
- A ball
- An empty roll of kitchen/ toilet paper
- A can of beans or soup
- A cone shaped item from around your home
- A cereal box
- A cube shaped item
- Pencil & paper
- Your maths eyes 

What are 3D shapes?

A 3D shape is a shape that is solid and not flat.

3D = 3 dimensional.

3D shapes have faces, edges & corners (vertices).

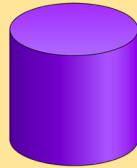


3D Shape Vocabulary

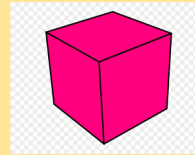
Sphere



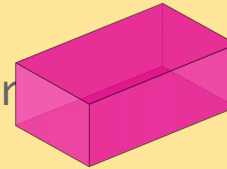
Cylinder



Cube



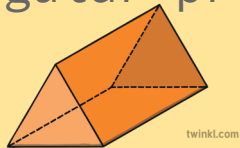
Cuboid- Sometimes called a rectangular prism



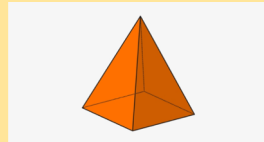
Cone



Triangular prism



Pyramid





3D Shape Hunt

Task 1:

Go on a 3D shape hunt around your home! How many of each shape can you find? Each time you see one, put a tick in the tally box beside that shape.



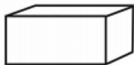


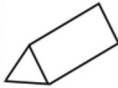

This might help!

<https://www.twinkl.ie/go/resource/t-t-2548386-3d-shapes-picture-hotspots>

Print link: <https://www.twinkl.ie/resource/t-n-2995-3d-shape-hunt-worksheet>

3D Shape Hunt

Use a tally to count the shapes you see.

Shape	Tally
	
	
	
	
	
	
	

Which shape did you see the most?

Which shape did you see least?

Shape Mug shots!

Task 2:

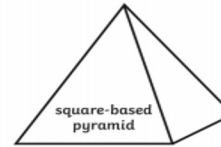
You are a shape investigator and you have arrested all of the following shapes for breaking the law.

Take down their details below their picture for your supervisor to put on file at headquarters!

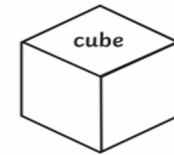
Print link:

<https://www.twinkl.ie/resource/t-n-1040-3d-shape-properties-worksheets>

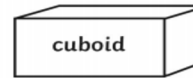
3D Shapes



edges _____
faces/surfaces _____
vertices _____



edges _____
faces/surfaces _____
vertices _____



edges _____
faces/surfaces _____
vertices _____



edges _____
faces/surfaces _____
vertices _____



edges _____
faces/surfaces _____
vertices _____



edges _____
faces/surfaces _____
vertices _____



Shape Science!

Task 3:

Gather any 3D shaped objects that you have managed to find in your house. If you can't find them all just use the ones you have! Have a good look at your shapes. Which do you think can roll? Which can stack on top of each other and which can slide? Now make 2 lists;

1. Your predictions on which can roll, slide and stack.
2. Try each shape out and see if you were right! Make another list.

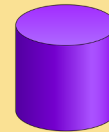
Task 4: Option 1

Pick your 3 favourite 3D shapes.

Examine them to find out what 2D shapes they are made up of. Make a list on you piece of paper.

Example:

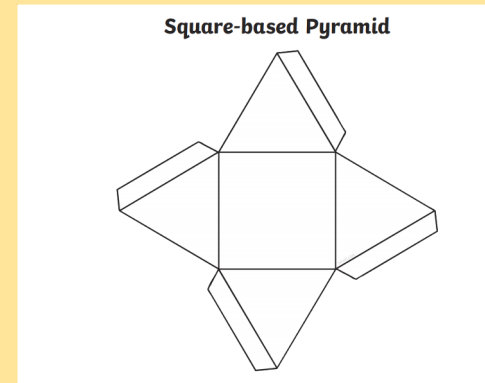
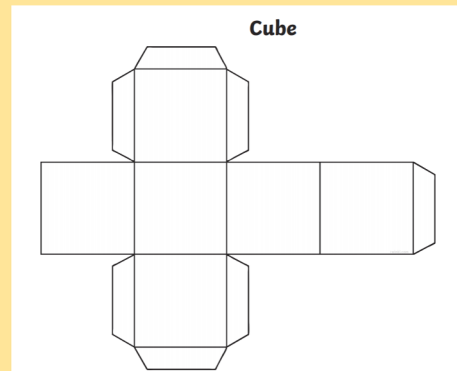
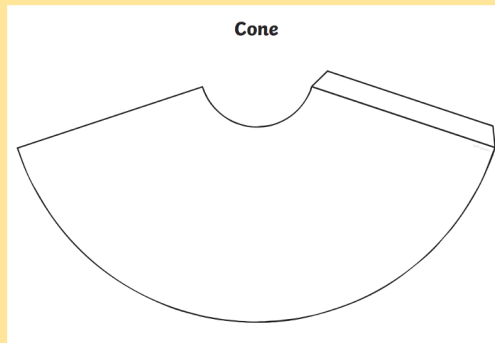
A cylinder is made up of 2 circles and a long, curved rectangle!



Task 4 :Option 2

Instead of task 4 you could make some of these shapes yourself by cutting and sticking & seeing what 2D shapes they are made up of!

Print link: <https://www.twinkl.ie/resource/t-n-2545148-3d-shape-nets-ks1-activity-sheets>



Revision: Subtraction with renaming

a.	2 3	b.	2 6	c.	2 2	d.	3 8	e.	2 1
-	1 7	-	1 9	-	1 6	-	2 9	-	1 3
f.	3 3	g.	4 4	h.	4 7	i.	3 8	j.	4 1
-	1 5	-	2 7	-	1 8	-	1 9	-	2 6
k.	4 5	l.	4 0	m.	4 1	n.	5 6	o.	5 2
-	2 9	-	2 8	-	1 7	-	3 7	-	3 8
p.	5 0	q.	5 6	r.	6 2	s.	6 1	t.	5 7
-	2 7	-	1 8	-	3 5	-	2 6	-	2 9
u.	7 1	v.	6 2	w.	6 6	x.	8 5	y.	7 5
-	4 3	-	3 8	-	3 9	-	4 8	-	4 6

Word Problems:

Use paper and pencil.

1. Mr Mitchell had 32 boys in his class. 18 of them went to a match. How many were left?
2. Ms. O' Farrell had 47 sweets in a bag. She gave one to each of her 29 boys. How many did she have left for herself?
3. Ms. Ó Dubhagáin bought 75 pencils in September. 39 of them broke in the first week! How many were not broken?

Example:

$$\begin{array}{r} 3 \\ 43 \\ - 17 \\ \hline 26 \end{array}$$

Remember!

If there's more on the floor, go next door & borrow 10 more!

Print link:

<https://www.twinkl.ie/resource/year-2-subtracting-2-digit-numbers-from-2-digit-numbers-in-a-column-with-exchanging-worksheet-t-n-7500>

Additional work - Only if you would like it!

Tables work - Hit the button; go to number bonds

<https://www.topmarks.co.uk/maths-games/hit-the-button>

3D shape guessing game- what am I? <https://www.twinkl.ie/resource/t2-m-17311-draw-the-3d-shape-game>

Planet Maths pages 106 & 107 on 3D shapes. If you do not have it at home you can find the ebook here.

<https://www.folensonline.ie/home/library/programmes/planet-maths2/ebook/>

Master My maths- Next 2 weeks & Friday tests. (If you have it at home)