Maths 18/05/2020

This week our focus is on shapes, both 2d and 3d.

Hopefully, by the end of this week you will have a good understanding of the names and properties of different 2d and 3d shapes, the terms regular and irregular in regards to shape and how to sort shapes.

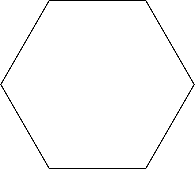
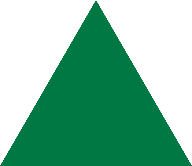
This week I have uploaded the following worksheets:

1. 2d shape properties table
2. Sorting 2d shapes
3. Nets of 3d shapes
4. 3d shape naming and hunt
5. 3d shape properties and Venn diagram

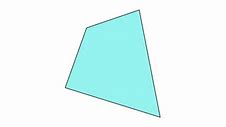
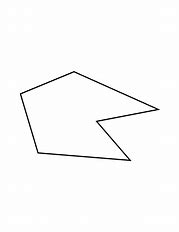
Below and on the other pages, I have included some important **help** information and I have put some links to learning clips to help with learning about shape this week. I have also included online games, practical and other ideas. I am only an email away if anything isn’t quite clear enough or for you to send pictures of your work : )

Help

Regular polygons are shapes that have all angles are equal in measure and all sides have the same length.



Irregular polygons is a polygon that does not have all sides equal and all angles equal.



Online games and learning clips

What are 2d shapes <https://www.bbc.co.uk/bitesize/topics/zbtp34j/articles/zfdvvk7>

What are 3d shapes

<https://www.bbc.co.uk/bitesize/topics/zjv39j6/articles/zcsjqty>

Identifying different polygons

<https://www.bbc.co.uk/bitesize/topics/zvmxsbk>

What are nets?

<https://www.bbc.co.uk/bitesize/topics/zt7xk2p/articles/z247tv4>

2d sorting game [https://mathsframe.co.uk/en/resources/resource/75/shapes\_sort\_carroll#](https://mathsframe.co.uk/en/resources/resource/75/shapes_sort_carroll)

3d Sorting game [https://mathsframe.co.uk/en/resources/resource/115/sorting\_3d\_shapes\_on\_a\_venn\_diagram#](https://mathsframe.co.uk/en/resources/resource/115/sorting_3d_shapes_on_a_venn_diagram)

This is a tangram game

<https://mathigon.org/tangram>

Practical and other ideas

* Draw a picture including regular and irregular shapes
* Make a list of sided shapes and their names. E.g. 3 sides = triangles, 4 sides = quadrilaterals 5 = 6 = 7= .
* Build a structure using different 3d shapes (make the shapes from nets or find objects representing different 3d shapes)
* Go on a shape hunt in your local area (remembering to keep safe)
* Design a house using specific shapes- label the shapes
* Create a snap card game using 2d or 3d shapes
* Draw an insect or plant using only specific 2d shapes
* Make a 3d insect or plant using specific 3d shapes
* Make a poster explain 2d and 3d shapes
* Pick a specific shape- research the shape in detail. E.g. there are different types of triangles
* Investigate the angles within different shapes. For example, the angles within quadrilaterals equal 360˚, the angles within a pentagon equal 540˚
* Can you think of different ways you can learn about shape?