**Maths Overview Class Seven Week commencing 1st and 8th June**

**Topic- shape and symmetry**

**Shapes and Symmetry.**

• To compare and order angles

• To identify right angles

• To identify acute and obtuse angles

• To investigate angles within shapes

• To compare and classify 2-D shapes

• To compare and classify quadrilaterals

• To compare and classify right angled and equilateral triangles

• To compare and classify isosceles and scalene triangles

• To identify lines of symmetry in 2-D shapes

• To complete a simple symmetrical figure

• To investigate a problem using symmetry

Possible misconceptions:

• Pupils may think the size of angles is related to the size of the shape they are contained within, rather than the amount of turn.

• Right angles / perpendicularity may only be identified in particular orientations (usually between horizontal and vertical planes). This can be rectified by showing a greater variety in the examples of right angles that pupils experience.

• Parallel lines may only be found in horizontal and vertical planes. Again, exposure to a range of different scenarios and examples of parallel lines will alleviate this.

• Pupils may believe that a squares is not a rectangle. The properties and classification of 2-D shapes can explicitly draw out this misconception.

• It may be thought that similar/congruent shapes are different when displayed in a different orientation, which can be addressed with thorough variation. • Pupils may describe physical objects are 2-D shapes (rather than having surfaces that are 2-D shapes) 1 2 3 4 6 7 8 9

For this unit of work go to-

1.<https://www.thenational.academy>

2. Click on ‘on line classroom’

3. Click on year 4. The week beginning 01st June is week 6. The week beginning 08th June is week 7.

**Extension activities.**

Below are extra maths activities to practise and develop the skills from these lessons.

**On line links-**

<https://uk.ixl.com/math/year-4>

<https://garyhall.org.uk/maths-objectives/139/identify-lines-of-symmetry-in-2-d-shapes-presented-in-different-orientations>

<https://www.topmarks.co.uk/Search.aspx?q=symmetry>

<https://nrich.maths.org/1886>

<https://www.ncetm.org.uk/resources/42842>