**Maths Challenges Summer Term 2019-2020**

**Week 4**

| **Focus** | **Challenge 1** | **Challenge 2** | **Challenge 3** |
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| **Exploring shapes** | **To explore the properties of 2D and 3D shapes*** Sort kitchen items into 3D sets of cubes, cuboids, spheres or cylinders
* Play ‘Guess the name of the shape?’ by putting an item in a bag and feeling it
* Draw around the base of 3D kitchen items and identify the 2D shape
* Identify any right angles on 3D shapes by putting a square piece of paper in each corner (vertices) -If it fits exactly, it’s a right angle
* Explore the nets of 3D shapes by carefully opening up a box. Count the number of faces and identify the 2D shape(s) that form the net.
 | **To explore the properties of 2D and 3D shapes*** Make a tally of how many cubes, cuboids spheres or cylinders you can find in different rooms of your house
* Identify the number of faces, vertices and sides each 3D shape has
* Identify the total number of right angles on 3D items in your home
* Explore the nets of 3D shapes by carefully opening up a box. Can you remake the 3D shape from the net?
* Draw some 2D shapes and cut them out. Try to fold them in half-if both sides match they are symmetrical
 | **To explore the properties of 2D and 3D shapes*** Play ‘Guess the name of a shape’ by describing a shapes properties to your partner
* Identify vertical, horizontal or parallel lines in your home
* Identify items that have right angles, acute or obtuse angles
* Try to make your own net of a 3D shape
* Draw squares and rectangles and fold to make a triangle
* Draw as many quadrilaterals as you can (shapes with 4 sides)
* Identify regular and irregular shapes (regular shapes=sides of same length)
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