

Maths Scavenger Hunt

Shape and Space Strand

5th and 6th class

**Glossary:**

1. Parallel lines are straight lines that are always the same distance from one another. They will never meet.

1. An acute angle is less than 90 degrees and an obtuse angle is more than 90 degrees.
2. A right angle is exactly 90 degrees.
3. A polygon is a 2D shape formed with straight sides. A regular polygon is a 2D Shape whose sides are all the same length and whose angles are all the same size. A cube is a regular polygon.
4. An irregular polygon has one or more sides longer that the other sides.
5. A 3D shapes has a face, vertex (vertices if more than one) and an edge.

Task 1: Lines and Angles

1. Find and name examples of each of these shapes in or outside your house:



1. An acute angle \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. A right angle \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. An obtuse angle \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. A straight angle \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Create a 90 degree and a 45 degree angle using objects you find in your house (straws, sticks, pencils, Lego). Take or draw a picture of these angles.



Task 2: 2D shapes



1. A regular polygon has three or more sides that are all equal. Find and draw 3 regular polygons in your house or garden in the space on the next page.
2. An irregular polygon has three or more sides that are all not the same. Find and draw 2 irregular polygons in your garden in the space below.
3. Find and draw an example of a tessellation pattern in your house. (Hint: look at the bathroom tiles or curtains in your room)
4. Find and draw an example of a shape with two parallel lines in your bathroom.

Task 3: 3D shapes

1. Pick up your favourite book. How many faces, vertices and edges does your book have? (use the picture below to help you)
2. Faces: \_\_\_\_\_\_\_
3. Vertices: \_\_\_\_\_\_\_
4. Edges: \_\_\_\_\_\_
5. Look at your fridge. How many faces, vertices and edges does your fridge have? (use the picture below to help you)

Edge

1. Faces: \_\_\_\_\_\_\_
2. Vertices: \_\_\_\_\_\_
3. Edges: \_\_\_\_

Vertex

Face

1. a. Count and make a bar chart of the following shapes in your kitchen: cube, cylinder, cone, sphere, and hexagonal prism

|  |  |
| --- | --- |
| 2019181716151413121110No of shapes987654321 |  |
|  | cube cylinder cone hexagonal prism sphere |

1. How many more cubes are there than spheres?
2. How many cones and cylinders are there combined?

\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which shape is most common? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Why do you think this is? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_