| Mount Charles School Geometry properties of shape Objective K-Knowledge. S-Skills |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | Sort <br> Cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square Shape <br> Flat, curved, straight, round, solid, corner face, side Make, draw, build | 3D <br> cube cuboid sphere pyramid cylinder cone <br> 2D <br> circle triangle square <br> rectangle face <br> repeated <br> Group <br> Hollow <br> Point, pointed <br> edge | ```quadrilateral polygon pentagon hexagon vertex vertices line of symmetry symmetrical octagon hemisphere curved surface edge prism size bigger, larger, smaller fold match mirror line, reflection pattern, repeating pattern``` | right angle perpendicular acute obtuse horizontal vertical parallel | interior angle regular irregular isosceles scalene equilateral reflective symmetry quadrilateral triangles right angle, acute and obtuse angles | degree ( ${ }^{\circ}$ ) interior angle top view plan view side view regular and irregular polygons | Compound shape <br> Cubic centimetre (cm3) <br> vertically opposite angles <br> radius <br> diameter <br> concentric <br> diameter <br> circumference net <br> tetrahedron |
|  | Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes | recognise and name common 2-D and 3- <br> D shapes, including: <br> * 2-D shapes [e.g. rectangles (including squares), circles and triangles] <br> * 3-D shapes [e.g. cuboids (including cubes), | identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line K - meaning of symmetry |  | identify lines of symmetry in 2-D shapes presented in different orientations <br> K - identify shapes in different orientations K - to identify lines of symmetry <br> S - identify lines of symmetry in 2D | identify 3-D shapes, including cubes and other cuboids, from 2-D representations <br> K - properties of 3D shapes <br> K - how 3D shapes are represented 2D | recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing) <br> K - a net can be folded up to make a 3D shape K-a 3D shape can have different nets K - how to build 3D shapes from different materials |


| pyramids and spheres]. <br> K - names for common 2-D and 3-D shapes K - properties of common 2-D and 3-D shapes <br> S-recognise and name common 2-D and 3-D shapes | K - vertical means top to bottom <br> K - properties of 2- <br> D shapes <br> S - identify <br> properties of 2D <br> shapes <br> S - describe <br> properties of 2D <br> shapes <br> S - identify and describe line symmetry in a vertical line <br> identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces <br> K - vocabulary of edges, vertices and faces <br> K - properties of <br> 3D shapes <br> $S$ - identify <br> properties of 3D <br> shapes <br> S-describe properties of 3D shapes <br> identify 2-D shapes on the surface of |  | shapes presented in different orientations | S - identify 3D shapes from 2D representations | S - recognise, describe and build simple 3D shapes <br> S -make nets of simple 3D shapes. <br> Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius <br> K - meaning of radius, diameter and circumference K - diameter is twice the radius <br> S- illustrate and name parts of a circle |
| :---: | :---: | :---: | :---: | :---: | :---: |






