Position, Direction and Movement

Year 6

Fractions and Decimals and
Percentages

Shape

Position, Direction and Movement

Onto Secondary school

ue to identify 3D shapes from 2D representations. They can use the properties of rectangles to deduce related facts and find missing lengths and angles. They can distinguish between regular and irregular pol-

ygons. Children know

angles are measured

Y5 - Children contin-

Y5 - Children can identify, describe and represent the position of a shape following a refection or translation, using the appropriate language, and know that the shape has not changed.

Y6 - Children learn to use common factors to simplify fractions. They compare and order fractions including those greater than one. Children can add and subtract fractions with different denominators. They learn to divide proper fractions by whole numbers. Children can identify the value of each digit up to 3 decimal places. They multiply one -digit numbers with up to 2 decimal places by whole numbers. Children can use written method where the answer had up to 2 decimals places. They solve problems involving the calculation of percentages and can recall simple equivalences between fractions, decimals and percentages.

Y6 - Children learn to draw 2D shapes using given dimensions and angles. They compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. Children will be able to recognise angles where they meet at a point and find missing angles.

Y6 - Children build on their knowledge and describe positions on the full coordinate grid. They can draw and translate simple shapes on the coordinate plane and reflect them in the axes.

Fractions and Decimals and
Percentages

Year 5

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Y5 - Children learn to compare and order fractions with denominators which are multiples of the same number. They can identify name and write equivalent fractions. Children learn to recognize mixed numbers and improper fractions and can convert from one to the other. They continue to add and subtract fractions and begin to multiply proper fractions and mixed numbers by whole numbers. Finally, they learn to read and write decimal numbers as fractions. They read write and order numbers with up to three decimal places. Children round decimals with two decimal places to the nearest whole number and to one decimal place. They recognise the per cent symbol and understand that per cent relates to number of parts per hundred.

Y4 - Children learn to describe positions on a 2D grid as coordinates in the first quadrant. They learn to plot specified points and draw sides to complete a given polygon.

Y4 - Children can identify acute and obtuse angles and compare and order angles. They can compare and classify geometric shapes including quadrilaterals and triangles. Children can identify line of symmetry in 2D shapes in different orientations. They can complete simple symmetric figures.

Year 3

Fractions

Shape

Position, Direction and Movement

Year 4

Y3 - Children count up and down in tenths. They recognise and use fractions as numbers. Children find fractions of objects with small denominators. They understand simple equivalent fractions and compare fractions with the same denominator. Children can add and subtract fractions with the same denominator.

Y3 - Children can recognise angles as a property of shape or a description of a turn. They can identify right angles and identify if angles are greater than or less than a right angle. Children will identify horizontal and vertical perpendicular and parallel lines. They can draw 2D shapes and made 3D shapes using modelling materials.

Y3 -

Y4 - Children will recognise families of common equivalent fractions. They will count up and down in hundredths and understand that hundredths come from dividing something by 100. They will continue to practise adding and subtracting fractions with the same denominator. They can recognise and write decimal equivalents of any number of tenths and hundredths. Children can compare numbers with the same number of decimal places up to two decimal places. They can round decimals with one decimal place to the nearest whole number.

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Fractions

Year 2

Position, Direction and Movement

Y2 - Children will be able to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns. They can order objects in patterns and sequences.

Y2 - Children will be able to identify and describe the properties of 2D shapes including the number of sides and line symmetry in a vertical line. They will look at describing 3D shapes including the number of edges, vertices and faces. Finally, they will compare and sort common 2D and 3D shapes and everyday objects.

Y2 - Children will be able to recognise, fin, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity. They will write simple fractions and recognise the equivalence of 2/4 and 1/2.

Y1 - Children will be able to describe the position, direction and movement including whole, half, quarter and three quarter turns.

Y1 - Children will be able to recognise and name common 2D shapes including squares, circles and triangles. They will be able to recognise and name common 3D shapes including cubes, pyramids and spheres.

**EYFS** 

Shape

Position, Direction and Movement

Year 1

Fractions

EYFS - Children learn that squares and rectangles have 4 straight sides and 4 points and triangles have 3 straight sides and 3 points. They begin to recognise these shapes in everyday items in the classroom and outside. They will explore and manipulate 3D shapes through their block play and modelling. They will be introduced to the names of the shapes and discuss similarities and differences between them.

EYFS - Children will be given opportunities to select and rotate shapes to fill a given space. They will negotiate space and obstacles safely, with consideration for themselves and others.

Y1 - Children will be able to recognise, find and name half as one of two equal parts of an object shape or quantity. They will find and name a quarter as one of four equal parts.

Shap

Fractions and Decimals