

Geometry: Properties of Shapes

Identifying Shapes and their Properties

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Recognise and name common 2-D and 3-D shapes, including: * 2-D shapes [e.g. rectangles (including squares), circles and triangles] * 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.		Identify lines of symmetry in 2-D shapes presented in different orientations.	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.	Recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing).
	Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.				Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.
	Identify 2-D shapes on the the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid.				

Drawing and Constructing

		Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.	Complete a simple symmetric figure with respect to a specific line of symmetry.	Draw given angles, and measure them in degrees.	Draw 2-D shapes using given dimensions and angles.
					Recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties).

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Comparing and Classifying

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Compare and sort common 2-D and 3-D shapes and everyday objects.		Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.

Angles

		Recognise angles as a property of shape or a description of a turn.		Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
		Identify right angles, recognise that two right angles make a halfturn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.	Identify acute and obtuse angles and compare and order angles up to two right angles by size.	Identify: <ul style="list-style-type: none"> angles at a point and one whole turn (total 360 degrees) angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180 degrees) * other multiples of 90 degrees 	

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Telling the Time					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.	Read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting).		
Recognise and use language relating to dates, including days of the week, weeks, months and years.	Know the number of minutes in an hour and the number of hours in a day. (appears also in Converting).	Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Comparing and Estimating).			

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			Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Converting).	Solve problems involving converting between units of time.	
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Converting					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time).	Know the number of seconds in a minute and the number of days in each month, year and leap year.	Convert between different units of measure (e.g. kilometre to metre; hour to minute).	Convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
			Read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting).	Solve problems involving converting between units of time.	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Measuring and Calculating).



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			Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Telling the Time).	Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints.	Convert between miles and kilometres.
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