



Glossary

Circumscribe	To draw a circle around a two-dimensional <i>shape</i> so that all the vertices of the <i>shape</i> are on the circumference of the circle.
Construct	To draw a geometrical figure using only the straight edge of a ruler and a compass. In a geometric construction, the ruler cannot be used in order to measure lengths.
Cross-section	The <i>shape</i> produced when a <i>solid</i> is cut through by a plane, <i>parallel</i> to the base.
Disembed	To identify a figure within a figure.
Dynamic imagery (or <i>flexible dynamic imagery</i>)	Visualisation of the movement or <i>transformation</i> of a figure.
Edge	An <i>interval</i> formed by the intersection of two <i>faces</i> .
Embed	To include figures within figures.
Face	A flat surface bound by <i>edges</i> , that is part of a <i>solid</i> .
Feature	A generally observable attribute of a <i>shape</i> or <i>object</i> , whereas <i>properties</i> require mathematical knowledge. 'A rectangle has four sides' is a <i>feature</i> .
Frame	A model of a polygon, in which discrete materials such as straws or matchsticks are used to make the sides.
Horizontal	A <i>line</i> that is at right angles to the <i>vertical</i> .
Inscribe	To draw or <i>construct</i> a figure so that it touches all of the sides of another figure.
Interval	Part of a <i>line</i> .
Irregular shapes	<i>Irregular shapes</i> do not have either all sides equal or all angles equal.
Line	The straight path extending indefinitely through two points. <i>Lines</i> are always straight, therefore it is incorrect to use the term 'curved line'.
Non-example	To illustrate and clarify a rule by deliberately showing what it does not mean.
Object	A three-dimensional figure.



Teaching Space and Geometry

Orientation	The position of a figure in relation to its surroundings and to the person observing it.
Overlap	The shape created by the intersection of one <i>shape</i> partially or totally covering another.
Parallel	<i>Lines</i> that are contained in the same plane and do not intersect. Curves that are equidistant are <i>parallel curves</i> , not <i>parallel lines</i> .
Pentomino	A two-dimensional figure formed by joining five squares of equal size, with no <i>overlaps</i> , so that each square shares at least one complete edge with another square. There are 12 different <i>pentominoes</i> .
Perpendicular	Two <i>lines</i> that meet at right angles (90°).
Property	An attribute of a <i>shape</i> or <i>object</i> , the identification of which requires mathematical knowledge, whereas <i>features</i> are generally observable. 'A rectangle has two <i>lines</i> of symmetry' is a <i>property</i> .
Regular shapes	<i>Shapes</i> that have all sides equal and all angles equal.
Rigid	A figure that cannot be deformed.
Section	The flat surface obtained by cutting through a <i>solid</i> in any direction.
Shape	A two-dimensional figure.
Solid	A closed three-dimensional figure.
Superimpose	To place a <i>shape</i> on top of another one to create an <i>overlap</i> .
Tessellation	The repetition of one or more <i>shapes</i> so that they fit together without leaving gaps and without <i>overlaps</i> .
Transformation	A change in the form of a figure. This includes reflections, translations, rotations, enlargements and compressions.
Vertex	In three-dimensional space, a point formed by the intersection of three or more <i>faces</i> . In two-dimensional space, the point where the two arms of an angle meet.
Vertical	A <i>line</i> that is at right angles to the <i>horizontal</i> .