Properties of Shapes

Knowledge Organiser

Key Vocabulary

angle

- right angle
- acute
- obtuse

reflex

protractor

horizontal

vertical

parallel

perpendicular

polygon

regular

irregular

two-dimensional

three-dimensional

flat face

curved surface

edge

vertex

apex

Regular and Irregular Polygons



A polygon is any two-dimensional shape with straight lines.

In a regular polygon, all the sides and angles are equal. Equal sides can be indicated by lines called hatch marks.





two sets of equal sides

all sides are equal

In an irregular polygon, the sides and angles are not equal.

Using Properties of Rectangles



Properties of 3D Shapes

Name	Surfaces		Edges	Vertices	Disture
	Flat	Curved	Luyes	Vertices	Picture
cube	6	0	12	8	
cuboid	6	0	12	8	
square-based pyramid	5	0	8	5	
tetrahedron	4	0	6	4	
triangular prism	5	0	9	6	
pentagonal prism	7	0	15	10	
hexagonal prism	8	0	18	12	
octagonal prism	10	0	24	16	
octahedron	8	0	12	6	\diamond

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