Properties of Shape

Knowledge Organiser

Key Vocabulary	Regular and I
angle	Regular
right angle	Regular
acute	
obtuse	
reflex	
protractor	
horizontal	A polygon is any two-dimer straight lines.
vertical	– In a regular polygon, all th
parallel	In an irregular polygon, an the
perpendicular	not equal.
polygon	
regular	Repre
irregular	Cube models can be drawn
two-dimensional	as 2D representations using different elevations.
three-dimensional	Plan
flat face	
curved surface	
edge	Side
curved edge	Elevation Front
vertex	Elevation Plan
apex	Front
twinkl visit twinkl.com	Side Elevation

	- <u></u>				
Regular	Irregular				

and Irregular Polygons

two-dimensional shape formed with

gon, all the sides and angles are equal.

olygon, the sides and angles are

Representations

A shape net is a 2D drawing of an unfolded 3D shape. When you are drawing or reasoning about shape nets, think carefully about where the edges of the faces meet.



Shape net of a tetrahedron.

Properties of 3D Shapes

Name	Surfaces		Edges						
	Flat	Curved	Flat	Curved	Vertices	Picture			
cube	6	0	12	0	8				
cuboid	6	0	12	0	8				
square-based pyramid	5	0	8	0	5				
tetrahedron	4	0	6	0	4	\checkmark			
triangular prism	5	0	9	0	6				
pentagonal prism	7	0	15	0	10				
hexagonal prism	8	0	18	0	12				
octagonal prism	10	0	24	0	16				
octahedron	8	0	12	0	6	\diamond			
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A cone has an apex. This is because a vertex is the point where two straight edges meet and a cone has no straight edges.

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