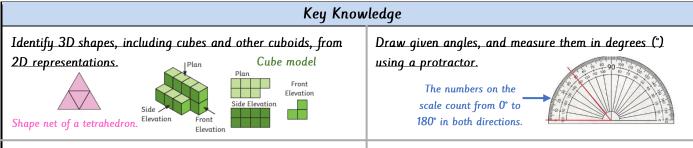
Year 5 Maths: Geometry: Shape



What should I already know?

- Identify lines of symmetry in 2D shapes presented in different orientations.
- Complete a simple symmetric figure with respect to a line of symmetry.
- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and size.
- Identify acute and obtuse angles and compare and order angles up to two right angles by size.
- Vocabulary I should already know: side, edge, vertex, vertices, face.



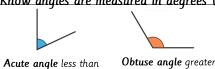
Use the properties of rectangles to deduce related facts and find missing lengths and angles.



Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.

Regular	Irregular			

Know angles are measured in degrees (°): estimate and compare acute, obtuse and reflex angles.



Obtuse angle greater than 90°, less than 180°

Reflex angle greater than 180°



Angles on a straight line always total 180°



Angles around a point, always total 360°

Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and ½ a turn (total 180°) and

other multiples of 90°.



Key Vocabulary and definitions

neg ro	cubulary una definitions				
net of a 3D	What the shape looks like if it is				
shape	opened out flat.				
elevation	A height to which something is				
	raised.				
protractor	A tool used to measure angles in				
•	degrees (°).				
regular polygon	Any 2D shape formed with straight				
5 1 55	sides. All the sides and angles are				
	equal.				
irregular	The sides and angles are not equal.				
polygon					
angles	When two straight lines meet at a				
3	point (right angle, acute angle,				
	obtuse angle, reflex angle).				
reflex angle	An angle greater than 180°				
intersect	Cross e.g., when two or more lines				
	cross or lie across each other.				
parallel lines	Lines that never intersect e.g., run				
	along next to each other like tracks				
	of a train.				
perpendicular	Lines that intersect one and other at				
lines	90° (right angle).				
vertex/vertices	The corner point where straight				
2. 20,7 2 0. 22003	edges meet.				
	3				
арех	A cone has an apex because a vertex				
	is a point where 2 straight edges				
	meet and a cone has no straight				
	edges.				
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Properties of 3D shapes:

Name	Surfaces		Edges		Vanticas	Distance
	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	o	6	0	4	
triangular prism	5	o	9	0	6	
pentagonal prism	7	0	15	0	10	
hexagonal prism	8	0	18	0	12	0
octagonal prism	10	0	24	0	16	
octahedron	8	0	12	0	6	\rightarrow