

Unit 6a: Properties of shapes, parallel lines and angle facts

Year 9 Road Map

In this unit you will learn about number. The aims are as follows:

LG1: Knowledge

LG2: Application

LG3: Skills

S/N	Level	Learning Goals/Outcomes/Content	Dr Frost Videos			
			R	A	G	
6a) Properties of shapes, parallel lines and angle facts						
1	S	Estimate sizes of angles;	112a			
2	S	Measure angles using a protractor;	109a			
3	S	Use geometric language appropriately;	76a			
4	S	Use letters to identify points, lines and angles;	179d			
5	S	Use two-letter notation for a line and three-letter notation for an angle;	179a			
6	S	Describe angles as turns and in degrees;	62d			
7	S	Understand clockwise and anticlockwise;				
8	S	Know that there are 360° in a full turn, 180° in a half turn and 90° in a quarter turn;	62a			
9	S	Mark perpendicular lines on a diagram and use their properties;	63b 63d			
10	S	Mark parallel lines on a diagram and use their properties;	63c			
11	SCE	Recall the properties and definitions of special types of quadrilaterals, including symmetry properties;	25c			
12	SCE	Classify quadrilaterals by their geometric properties;	78f			
13	SCE	Use the fact that angle sum of a quadrilateral is 360° ;	151a			
14	SC	Given some information about a shape on coordinate axes, complete the shape;				
15	SCE	Recall and use properties of angles at a point, angles at a point on a straight line, right angles, and vertically opposite angles;	147a			
16	SCE	Distinguish between scalene, equilateral, isosceles and right-angled triangles;	149b 150a			
17	SCE	Derive and use the sum of angles in a triangle;	149a			
18	SC	Find a missing angle in a triangle, using the angle sum of a triangle is 180° ;	263c			
19	SCE	Understand and use the angle properties of triangles, use the symmetry property of isosceles triangle to show equal base angles	264f			
20	SCE	Use the side/angle properties of isosceles and equilateral triangles;				
21	SCE	Show step-by-step deduction when solving problems;	263e			
22	SCE	Understand and use the angle properties of intersecting lines;				
23	CE	Understand a proof that the exterior angle of a triangle is equal to the sum of the interior angles at the other two vertices;	263f			
24	SCE	Find missing angles using properties of corresponding and alternate angles;	262b 262c			
25	CE	Understand and use the angle properties of parallel lines.	263d			

Student's comments and questions:

