

Parkside School Curriculum Map 2025/6

Year 10								
Half term 1: Autumn 1	Half term 2: Autumn 2	Half term 3: Spring 1	Half term 4: Spring 2	Half term 5: Summer 1	Half term 6: Summer 2			
Angles	Sequences and graphs	Using ratio	Powers (runs from Spring 2 into Summer 1.)	3D solids	Probability			
Purpose: See below (Box 1) Overview of the knowledge and skills covered in this unit: • Angles in polygons • Angles in parallel lines • Bearings • Trigonometry (including extract values) Prior knowledge: • Angles around a point, on a line and in a triangle • Corrosponding, alternate, co interior and vertically opposite angles • North, South, East, West • Clockwise and anti-clockwise • Using a protractor and a ruler • Draw and measure angles • Angle notation How will this be assessed? See below (Box 2)	Purpose: See below (Box 1) Overview of the knowledge and skills covered in this unit: Prove a given number is in a sequence Special sequences (square, cubed, triangular numbers) Gradient of a line Draw quadratic graphs Create an equation from a graph or given coordinates Find the midpoint of a line Identify parallel and perpendicular lines give an equation Recognise cubic and reciprocal graphs Fibonacci sequences and geometric progression Prior knowledge: Coordinates Generate term to term sequences Sequences from patterns/diagrams Nth term Substitution Draw a straight line graph Use a graph to find a solution to an equation Rearranging formula Parallel and perpendicular lines Knowledge of axis How will this be assessed?	Purpose: See below (Box 1) Overview of the knowledge and skills covered in this unit: Combine ratios to solve problems Use ratio to convert compound units (density g/cm3) Direct proportion (using y=kx) Inverse proportion (using y=k/x) Problem solving with ratio Prior knowledge: Ratios as fraction and fractions as ratios Equivalent ratios Ratios in recipes Use ratio to convert length, capacity and mass Ratios and exchange rates How will this be assessed? See below (Box 2)	Purpose: See below (Box 1) Overview of the knowledge and skills covered in this unit: Use index laws to simplify standard form +,-,x, ÷ numbers in standard form Value of numbers with negative powers Prior knowledge: Square, cubed, square root and cubed root numbers X and ÷ numbers by 10, 100 and 1000 Index notation Index laws Write numbers in Standard form How will this be assessed? See below (Box 2)	Purpose: See below (Box 1) Overview of the knowledge and skills covered in this unit: Properties of solids Nets of solids Plans and elevations Surface area and volume of cubes, cuboids, cylinders, prisms and spheres Convert units of volume Volume and surface area of pyramids Prior knowledge: Name 3D solids and identify its faces, edges and vertices D shapes (triangles and quadrilaterals and all polygons from a pentagon to an octagon) Area of 2D shapes (all triangles, squares, rectangles, parallelograms and trapeziums) Squared and cubed numbers X and ÷ numbers How will this be assessed? See below (Box 2)	Purpose: See below (Box 1) Overview of the knowledge and skills covered in this unit: • Mutually exclusive events • Probability of something not happening • Listing outcomes • Sample space diagrams • Tree diagrams (with replacement) • Tree diagrams (without replacement) Prior knowledge: • Probability scale • Probability notation • Probability of an independent event • Experimental probability • X fractions and decimals How will this be assessed? See below (Box 2)			
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Barranda and Carach Land	C'inter (c. e. Curro, c. e. d. e.	
Percentages (runs from Autumn 1	Circles (runs from Spring 1 into	
into Autumn 2.)	Spring 2)	
	D	
Purpose:	Purpose:	
See below (Box 1)	See below (Box 1)	
Committee of the land date and	Occupies and the lower dealers and	
Overview of the knowledge and	Overview of the knowledge and	
skills covered in this unit:	skills covered in this unit:	
Percentages of amounts	Parts of a circle	
Show a number as a percentage	• What π is	
of another	Round to an exact value	
Percentage change (profit, loss)	Circumference and area of a	
Simple and compound interest	circle	
	Compound shapes including	
Prior knowledge:	circles	
Convert fractions and decimals	Arc length	
into percentages	Area of a sector	
Increase and decrease by a		
percentage	Prior knowledge:	
Multiplers	Rounding to decimal places and	
Calculator skills	significant figures	
Fraction of amounts	Calculator skills	
How will this be assessed?	How will this be assessed?	
See below (Box 2)	See below (Box 2)	
See below (Box 2)	See below (Box 2)	

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Designed to reinforce foundational concepts from Years 7, 8, and 9, each unit actively extends students' mathematical understanding into real-world applications.

Box 2:

Each unit concludes with a post-assessment.

Additionally, a comprehensive mock assessment will be held in the summer term, covering all knowledge from the start of Year 9 through the Year 10 summer term.