



Year 10 Summer Assessment 2025 – Revision Checklist



Topic	Text Book Ref.	Learning Intentions
1 Ratios	1	Write and simplify a ratio.
		Divide a quantity into a given ratio.
		Calculate unknowns with ratios.
		Understand and use map ratios and scales.
		Understand direct and inverse proportion.
		Solve problems involving direct and inverse proportion.
2 Area of a Trapezium and Compound Area	1	Calculate the area of a trapezium.
		Find missing measurements of a trapezium if given the area.
		Calculate perimeters and area of compound shapes.
3 Transformations	1	Understand how to reflect a shape in a mirror line.
		Translate a shape using a vector.
		Rotate a shape through 90°, 180° and 270° about (0,0).
		Enlarge a shape by a scale factor (positive whole number OR positive fractional) about a centre of enlargement.
		Find the centre of enlargement, given the object and image.
		Describe transformations fully.
4 Equations and Inequalities	1	Solve simple equations involving fractions.
		Understand and use the inequality symbols.

		Solve inequalities.
		Represent solutions on a number line.
5 Bearings and Scale Drawings	1	Draw and use scale drawings.
		Understand and use angles of elevation and depression.
		Understand, use, and draw three-figure bearings.
6 Nth Term and Trial and Improvement	2	- Find the n^{th} term of a linear sequence. - Find the n^{th} term of simple non-linear sequences. - Use the method of trial and improvement to solve equations.
7 The Circle	2	- Use and understand the language of the circle. - Calculate the circumference and area of a circle. - Calculate the perimeters and areas of shapes which include sectors.
8 Financial Maths	2	- Do calculations involving percentage change, discount, and compound interest. - Do calculations involving currency exchange. - Understand more about personal banking.
9 Pythagoras' Theorem	2	- Find the hypotenuse of a right-angled triangle using Pythagoras. - Find a shorter side in a right-angled triangle. - Find lengths in an isosceles triangle. - Use Pythagorean Triples.
10 The Straight Line	2	- Draw straight line graphs. - Identify the equation of straight-line graphs. - Find the gradient and intercept from a straight-line graph. - Solve simultaneous equations graphically.
11 Volume of a Prism	3	- Understand the terms cross section and prism. - Calculate the volume of a prism, including a cylinder. - Use the formula for density, mass, and volume.
12 Continuous Data	3	- Understand the meaning of continuous data and class boundaries. - Draw frequency diagrams for continuous data. - Calculate mean and median for grouped continuous data. - Identify the modal class.

13 Travel Graphs	3	• Understand and use Speed, Distance and Time. • Interpret and draw travel graphs.
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