Year 10 Mathematics Revision Checklist – Summer 2025

Please focus on the following topics for your Summer Examination. This includes work covered from September 2024 – May 2025.

You will need to bring a calculator, pencil, pen, 30cm ruler and **protractor** with you for your Mathematics Examination.

Mathematics Summer Examination 2025	Revised ✔
Write numbers as a product of prime factors (prime factor trees) leaving your answer in index form.	
Add, subtract, multiply and divide both positive and negative numbers (including decimals).	
Calculate the percentage of an amount.	
Use percentages to solve problems, including percentage increase, percentage decrease, percentage change and reverse percentages.	
Use percentages to calculate compound interest.	
Simplify algebraic expressions.	
Expand brackets to simplify expressions.	
Solve both 1 step and 2 step equations.	
Solve equations with letters on both sides.	
Substitute values into equations to achieve an answer.	
Calculate the perimeter and area of triangles.	
Calculate the perimeter and area of quadrilaterals, including: parallelogram, trapezium and rhombus.	
Use Pythagoras' Theorem to solve problems.	
Calculate the volume of 3D shapes.	
Draw and interpret Pie Charts and Scatter Graphs.	
Calculate the mean, median, mode and range from a list of numbers.	
Calculate the mean, median class and modal class from a frequency table.	
Apply angles facts to solve problems, including: angles on a straight line, angles in a triangle, angles in a quadrilateral and angels in a right angle.	
Set up and solve algebraic equations to solve problems.	
Factorise simple algebraic expressions.	
Recognise and factorise using the difference of 2 squares.	
Complete calculations with fractions.	
Simplify algebraic fractions.	
Use trigonometry to solve problems. (SOHCAHTOA)	
Find the nth term rule of a sequence.	
Complete calculations involving the nth term rule.	