

## Year 10 Mathematics Revision Checklist – Summer 2024

### 10BBR, 10RS and 10AK

Please focus on the following topics for your Summer Examination. This includes work covered from September 2023 – May 2024.

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

<b>Mathematics Summer Examination 2024</b>	<b>Revised</b>
	✓
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 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 Venn Diagrams, Pie Charts and Scatter Graphs.	
Understand the terms positive and negative correlation.	
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 angles in a right angle.	
Set up and solve algebraic equations to solve problems.	
Factorise simple algebraic expressions.	
Factorise and solve quadratic expressions and equations.	
Recognise and factorise using the difference of 2 squares.	
Simplify algebraic fractions.	
Use trigonometry to solve problems. (SOHCAHTOA)	
Draw and interpret cumulative frequency curves.	