

Year 8 Mathematics Revision Checklist – Summer 2024

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.

Mathematics Summer Examination 2024	Revised ✓
Addition, subtraction, multiplication and division of positive and negative whole numbers and decimals.	
Use negative numbers in practical situations, such as temperature.	
Place both positive and negative numbers (both whole numbers and decimals) in order.	
Understand the meaning of square numbers, square root, cube numbers, cube root, prime numbers, factors and multiples.	
Use prime factor decomposition (prime factor trees) to write a number as a product of its prime factors.	
Find the Highest Common Factor and Lowest Common Multiple of 2 numbers.	
Understand how to find the input and output from function machines.	
Understand the meaning of parallel and perpendicular lines.	
Apply the angles facts relating to angles on a straight line, angles in a triangle and angles in a right angle.	
Measure the length of given lines, measure and draw angles up to 360° using a protractor.	
Understand the meaning of the term line of symmetry.	
Label the parts of a circle, including: centre, circumference, chord, diameter and radius.	
Identify the names of quadrilaterals, including: square, rectangle, trapezium, kite, rhombus and parallelogram.	
Construct and interpret a variety of different statistical diagrams including: frequency tables, tally charts, pie charts, bar charts and pictograms.	
Understand and use equivalent fractions.	
Calculate the fraction of a quantity.	
Solve problems involving fractions.	
Calculate the percentage of a quantity.	
Solve problems involving percentages.	
Solve linear equations with 1 unknown. Both 1 step and 2 step equations.	
Understand the meaning of the terms mean, median, mode and range.	
Calculate the mean, median, mode and range from a list of numbers.	
Expand brackets involving both numbers and letters.	