

End of Year 10 Exams

Foundation Topic Checklist

Paper 1: Non-calculator

| Topic | R | A | G |
|--|---|---|---|
| Converting between metric units | | | |
| Radius and diameter of a circle | | | |
| Converting between fractions, decimals and percentages | | | |
| Squaring numbers | | | |
| Simplifying algebraic expressions | | | |
| Reading values from a table | | | |
| Calculating a percentage of an amount | | | |
| Calculating a fraction of an amount | | | |
| Finding the area of a rectangle and a triangle | | | |
| Properties of quadrilaterals (parallelogram, rhombus, trapezium, rectangle) | | | |
| Using information given about a calculation, to work out the answer to a similar calculation | | | |
| Best buy problems | | | |
| Calculations with ratio | | | |
| Multiplying decimals (non-calculator method) | | | |
| Solving linear equations | | | |
| Solving linear equations with x on both sides | | | |
| Problem solving with ratio | | | |
| Single event probability | | | |
| Dividing an amount in a given ratio | | | |
| Expanding single brackets | | | |
| Finding the range from a grouped frequency table | | | |
| Finding the median class from a grouped frequency table | | | |
| Column vector notation | | | |
| Calculations with fractions | | | |
| Order of operations (BoDMAS/BiDMAS) | | | |
| Solving inequalities | | | |
| Completing Venn diagrams | | | |
| Laws of indices | | | |
| Trig values for 30, 45, 60° | | | |
| Right angled trigonometry SOH CAH TOA (finding a length) | | | |

Paper 2: Calculator

| Topic | R | A | G |
|--|---|---|---|
| Recognising factors and multiples | | | |
| Place value | | | |
| Ordering negative numbers | | | |
| Ordering decimals | | | |
| Lines of symmetry | | | |
| Laws of indices | | | |
| Multiplying and dividing by 10, 100, 1000, etc. | | | |
| Adding decimals | | | |
| Multiplying fractions | | | |
| Finding square numbers using a calculator | | | |
| Finding square roots using a calculator | | | |
| Pictograms | | | |
| Single event probability | | | |
| Substituting values into expressions | | | |
| Multiplying integers and decimals | | | |
| Rearranging formulae (make x the subject) | | | |
| Distance-time graphs | | | |
| Recognising parts of a circle | | | |
| Graphs of horizontal and vertical lines | | | |
| Reading from a pie chart | | | |
| Recognising powers of 10 | | | |
| Calculations with money | | | |
| Calculating a percentage change | | | |
| Problem solving with ratio | | | |
| Reading from composite bar charts | | | |
| Finding cube roots using a calculator | | | |
| Volume of a cuboid | | | |
| Surface area of a cuboid | | | |
| Co-ordinates of the y intercept of a straight-line graph | | | |
| Pythagoras' theorem (find shorter side) | | | |
| Perimeter of a rectangle | | | |
| Product of prime factors | | | |
| Finding the highest common factor (Venn diagram method) | | | |