



**SUBJECT: Curriculum Overview**

**Year 10**

| Half Term           | Topic studied   | What will I learn?  | How will I be assessed?   |
|---------------------|---|---|---|
| Year 10<br>Autumn 1 | <i>Upper and middle sets</i><br>Simultaneous equations,<br>linearity, probability,<br>polygons<br><i>Lower sets</i><br>Number and shape work,<br>algebra                  | Solving with 2 methods, drawing straight line graphs, chance diagrams, angle properties of regular polygons.<br><br>Number properties, factors, primes, fractions, %, decimals, 2D shape properties, collect like terms | 1st Module Test in the penultimate week of October HT.<br><i>(plus marking of exercise books throughout the term)</i> |
| Year 10<br>Autumn 2 | <i>Upper and middle sets</i><br>Pythagoras, quadratics,<br>means, scatter graphs.<br><i>Lower sets</i><br>Negatives, formulae,<br>sequences and equations                 | Solving triangle problems, factorising quadratics, solving equations, means from a table, lines on a scatter graph.<br><br>Four functions, substitution, rules for next terms, solving 1 and 2 stage equations.         | 2nd Module Test in week before Xmas break.<br><i>(plus marking of exercise books throughout the term)</i>             |
| Year 10<br>Spring 1 | <i>Upper and middle sets</i><br>Inequalities, compound measures, loci<br><i>Lower sets</i><br>3D, graphs, proportion, bearings, probability                               | Using a number line, solving inequalities, using density and speed, drawing with compasses.<br><br>Drawing on isometric, curved graphs, protractor work to show journeys, expected outcomes                             | No formal test this half term. <i>(Marking of exercise books throughout the term)</i>                                 |
| Year 10<br>Spring 2 | <i>Upper and middle sets</i><br>Standard form, indices, sequences, prisms.<br><i>Lower sets</i><br>Pie charts, fractions, angle rules, brackets, equations                | Use of index rules, negative index for std form, quadratic nth terms, volumes.<br><br>Calculating pie angles, parallel lines and triangle rules, expansion of brackets  | Test after half term<br><i>(plus marking of exercise books throughout the term)</i>                                   |
| Year 10<br>Summer 1 | <i>Upper and middle sets</i><br>Fractions, similarity, trigonometry, proportion, frequency trees<br><i>Lower sets</i><br>Constructions, means, %, circles, area perimeter | All functions with mixed numbers, use of sin/cos/tan, direct and indirect, tree diagrams<br><br>Use of protractor, mean from a table, % in/decrease, circle formulae use.   | End of year exam, first paper <i>(plus marking of exercise books throughout the term)</i>                             |
| Year 10<br>Summer 2 | <i>Upper and middle sets</i><br>Surds, repeated change, graphs, probability, 3D.<br><i>Lower sets</i><br>Trial & improvement, 2-way tables, surveys, plans                | Rationalising a denominator, compound interest, reciprocal, cubic graphs, probability trees, volume<br><br>Solving to a given accuracy, probability from a table, 2D diagrams of 3D shapes                              | 2nd end of year exam paper. Some set changes based on both papers.  |

