Y9 Autumn

| A – B1 – Pythagoras' Theorem | A – B2 – Forming and solving | A – B3 – Solving ratio & | A – B4 – Three dimensional | A – B5 - Numbers |
|------------------------------|-----------------------------------|----------------------------------|-------------------------------|----------------------------------|
| | equations | proportion problems | shapes | |
| - Squares and roots | - Solve equations 2 step, | - Direct proportion | - 2D and 3D shape properties | - Directed number |
| - Identifying hypotenuse | brackets, unknowns on one side | - Inverse proportion | - Nets of 3D shapes | - Four operations with integers |
| - Finding missing sides with | or both sides | - Direct proportion graphs eg. | - Plans and elevations | and decimals |
| Pythagoras | - Solve inequalities 2 step, | conversion graphs | - Area of 2D shapes | - Four operations with fractions |
| - Pythagoras problems | brackets, unknowns on one side | - Inverse proportion graphs (H) | - Surface area of prisms and | - Types of number |
| - 3D Pythagoras (H) | or both sides | - Best buy problems | cylinders | - Prime factors |
| | - Inequalities with negatives (H) | - Solve ratio problems where | - Volume of prisms and | - HCF and LCM |
| | - Form and solve inequalities and | one part, the total or the | cylinders | - Integers, real and rational |
| | equations | difference are known | - Spheres, cones, pyramid (H) | numbers |
| | - Substitution | - Ratio and algebra problems (H) | | - Standard form |
| | - Rearrange formulae | | | - Basic surds calculations (H) |
| | - Expand binomials | | | |
| | - Expand triple brackets (H) | | | |

Y9 Spring

| Sp – B1 – Using percentages | Sp – B2 – Constructions | Sp – B3 – Straight line graphs | Sp – B4 – Maths and money | Sp – B5 - Transformations |
|------------------------------------|-----------------------------|-----------------------------------|--------------------------------|------------------------------|
| - FDP equivalence | - Loci from a point or | - Co-ordinates / midpoint recap | - Problems with bills and bank | - Reflection |
| - Percentage increase and decrease | straight line. | - Lines parallel to the axis | statements | - Rotational symmetry |
| - Reverse percentages | - Construct angle bisectors | - Plot lines | - Simple and compound | - Rotation |
| - Percentage change | - Construct perpendicular | - Gradients and intercepts | interest | - Translation |
| - Percentage problems | bisectors | - Understand y = mx + c | - VAT, wages and taxes | - Enlargements - integer and |
| - Repeated percentage change (H) | - Construct triangles | - Recognise a line from a graph | - Exchange rates | fractional (negative H) |
| | - Scale drawings | - Real life graphs | - Best buys | - Combined transformations |
| | - Loci probrems | - Rearrange into form y =mx+c (H) | | |
| | | - Perpendicular lines (H) | | |

Y9 Summer

| Su – B1 - Deduction | Su – B2 - Probability | Su – B3 - Rates | Su – B4 – Algebraic | Su – B5 – Congruence and |
|---------------------------------|---------------------------------|------------------------------|--------------------------------|----------------------------------|
| | | | representations | similarity |
| - Angles in parallel lines | - Single event probability | - Speed, distance, time | - Equations recap | - Congruent shapes |
| - Angles problems | - Probability from tables, | - Distance time graphs | - Show inequalities on number | - Recap angles in parallel lines |
| - Angles and algebra problems | frequency trees and Venns | - Density, mass and volume | line | - Similar shapes 2D |
| - Angles in polygons | - Relative frequency / expected | - Flow problems | - Substitution | - Areas of similar shapes (H) |
| - Conjectures - angles / shapes | outcomes | - Rates of change | - Recap linear graphs | - Volume of similar shapes (H) |
| - Constructions recap | - Tree diagrams (conditional H) | - Convert compound units (H) | - Plot quadratic graphs | - Conditions for congruency in |
| | | | - Plot cubic graphs | triangles |
| | | | - Recognising graph shape | |
| | | | - Factorise quadratics a=1 (H) | |