

Term One

| Unit | Detailed topic |
|---------------|---|
| Number | Rounding significant figures and estimation |
| Algebra | Solving equations recap |
| | Expand and simplify double brackets recap |
| | Factorise linear and quadratic expressions (with a coefficient of 1) (a>1) |
| | Change the subject of the formula – multi-step extend to having to factorise x |
| | Index Laws – including introduction to fractional and negative indices |
| Shape | 3D nets (matching) |
| | Circles – area and circumference including reverse to find radius CALC |
| | Surface area of cubes and cuboids |
| | Volume of cylinders including reverse? CALC |
| | Converting units: area and volume, capacity and mass |
| | Pythagoras' Theorem – including multi-step problems and worded problems CALC |
| Number (CALC) | Percentages of amounts and increase/decrease |
| | Reverse percentages |
| | Compound interest |
| | Speed/Distance/Time |

Term Two

| Unit | Detailed topic |
|---------|---|
| Data | Pie charts |
| | Mean, median, mode from tables including grouped data |
| Algebra | Patterns (Find the next term) |
| | Special sequences (Fibonacci, triangular, ...) |
| | Find the n th term of a sequence and check if a term is in a sequence |
| | Drawing straight line graphs from a table of values CALC (table function) |
| Shape | Trigonometry – SOH CAH TOA Include combination with Pythagoras in problem solving questions CALC |
| | Angles in parallel lines – alternate, corresponding and co-interior. Include opposite angles. Special quadrilaterals |
| | Interior and exterior angles of polygons CALC |

Term Three

| Unit | Detailed topic |
|---------|---|
| Algebra | Find the gradient of a line from a graph |
| | Equation of a line from a graph ($y=mx+c$) |
| Data | Simple probability Expected/Relative Frequency |
| | Listing outcomes from sample spaces |
| | Tree diagrams – dependent and independent events |
| Shape | Translation using vectors |
| | Rotation |
| | Reflection in an equation of a line including $y=x$ |
| | Enlargement including fractional scale factors |
| | Describing transformations |