

Year 8 Revision (Combined Calculator and non-calculator)

Number

- Add subtract multiply divide: whole/decimal / fraction numbers
- Fraction/Decimal/Percentage: Conversion between all 3
- Rounding: Decimal places / significant figures
- Ratio and proportion: Simplify/share/ best buy/ conversion
- Percentage of amounts
- Percentage increase/decrease
- Find original after an increase / decrease
- Estimation
- Types of numbers: Factors, multiples, prime, cube
- Highest Common Factor (HCF)
- Lowest Common Multiple (LCM)
- Prime factorisation

Algebra

- Collect like terms
- Simplify expressions
- Solve equations
- Formula: apply and rearrange
- Sequences
- nth term

Geometry and measures

- Area and perimeter: square/rectangle/triangle/parallelogram/trapezium/circle/compound shapes
- Converting between metric units / area
- Volume: cubes, cuboids, cylinders, other prisms
- Surface area of 3d shapes
- Angles: on a straight line, around a point, angles in regular shapes (polygons), parallel lines
- Properties of shapes: 2d and 3d
- Plans and elevations
- Construction

Statistics

- Draw and interpret: Pictogram/table and charts/pie charts/line graphs/ stem and leaf diagrams
- Mean, mode, median , range
- Collect and organise data including questionnaires