

Parrs Wood MATHS Year 7 Revision List

Below is a list of topics that have been covered so far this year. Students should use mathswatch and their exercise books to revise these topics before the spring assessment. Each topic has been subdivided into bands so each student can identify what they need to revise.

Number Calculations

- E Place Value
- 1 Multiply and divide by powers of 10
- 2 Add, Subtract, Multiply and divide integers
Order Numbers, including decimals and negatives
- 3 Add, Subtract, multiply and divide Decimals
Apply the order of operations
Add, Subtract, multiply and divide with Negative numbers

Fractions

- 1 Say what fraction of a shape has been shaded etc
- 2 Convert between basic fraction, decimal and percentage
Use equivalent Fractions
Simplify a fraction
- 3 Add & Subtract Fractions
Find a fraction of an amount
Multiply and Divide Fractions
Reciprocals
Convert between Fractions, Decimals and percentages
Order Fractions Decimals and percentages
- 4
- 5
- 6 Convert between Recurring Decimals and percentages

Algebra

- 1 Understand algebraic notation
- 2 Simplify algebraic expressions
Collect like terms
- 3 Expand single brackets
Simple Factorisation (one bracket) lol
- 4 Expand and simplify Brackets
Expand and simplify double brackets
- 5 Factorise Quadratics

Area

- 1 Find the area by counting squares
- 2 Find the perimeter of shapes
Find the area of a rectangle
Find the area of a triangle

- Find the area of a trapezium
- Find the area of a parallelogram
- Label a circle
- 3 Find the circumference of a circle
- Find the area of a circle
- Find the area of compound shapes
- 5 Find the area of a sector
- Find the arc length of a sector

Volume

- 1
- 2 Identify Nets of 3d shapes
- 3 Find the volume of a cuboid
- Find the surface area of prisms
- Find the volume of a prism(including compound)
- 4 Big box little box questions
- 5 Find the volume of a sphere
- Find the volume of a cone
- Find the volume of a pyramid

Ratio & Proportion

- 1 Identify a ratio
- 2 Write equivalent Ratios
- Simplify a ratio
- Ratio recipe
- Basic proportion
- Best value
- Simple Proportion
- 3 Share an amount in a ratio

Solving equations

- 3 Solve equations using flowcharts
- Subject of a formula using flowcharts
- 4 Solve linear equations
- Rearrange simple formula
- Forming formulae and equations
- Trial and improvement
- 5 Roots and turning points of quadratics
- Simultaneous equations-Linear**
- Solve quadratics by factorising
- 6 Iteration-Trial and improvement

Angles

- 2 Apply the fact that angles on a line add to 180
Apply the fact that angles around a point add to 360
- 3 Find missing angles in any triangle
Find missing angles in a quadrilateral

Find missing angles on parallel lines, Alternate and Corresponding
- 5 Find interior/exterior angles of regular polygons