

# Maths (Intermediate/Foundation)

# Year 9 Assessments

# May: End of Year

## Topics Areas to Revise

### Half Term 1

- Number Value
- Rounding
- Upper & Lower Bounds
- Multiplying and dividing with Integers & Decimals
- Dividing Integers Resulting in a Recurring Decimal
- BODMAS
- Read, Write & Evaluate Powers/Roots
- Indices (Multiply/Divide & Brackets)
- Indices (Negative Powers)
- Constructing Bisectors
- Constructing 2D shapes
- Properties of 3D Shapes & Geometry Notation
- Properties of Triangle
- Properties of Quadrilaterals
- Angles around a Point
- Parallel Lines
- Missing Angle Problems
- Interior & Exterior Angles of Polygons

### Half Term 2

- Prime Factorisation
- HCF & LCM using Prime Factorisation
- Read & Write Expressions, Equations & Inequalities
- Simplifying Expressions
- Expand Single Brackets
- Simplify Complex Expressions
- Factorising Linear Expressions
- Expand Double Brackets
- Fractions of an Amount
- Mixed Number Conversion
- Adding & Subtracting Fractions
- Multiplying & Dividing Fractions
- FDP
- Express a Quantity as a Fraction of Another
- Percentage of an Amount
- Percentage Increase & Decrease
- Percentage Change
- Original Amount
- Simple Interest
- Compound Interest

### Half Term 3

- Finding the Area & Perimeter
- Area & Perimeter of Composite Shapes
- Circumference of a Circle
- Area of a Circle
- Surface Area
- Volume
- Pythagoras Theorem
- Substitution
- Read & Write Formula
- Solving 1 & 2 Step Equations
- Equations - Unknowns on Both Sides
- Equations - Brackets
- Construct and Solve Equations
- Changing the Subject of Simple Formula
- Trial & Improvement

### Half Term 4

- Coordinate Problems
- Plotting Lines
- Plotting Linear Graphs (When y is Given)
- Plotting Linear Graphs (When y is Implicit)
- Equation of a Line
- Quadratic Graphs
- Bearings
- Rotation (Including Describing)
- Reflection (Including Describing)
- Translation with Vectors (Including Describing)
- Enlargement - Positive Scale Factor (Including Describing)
- Congruent & Similar Shapes

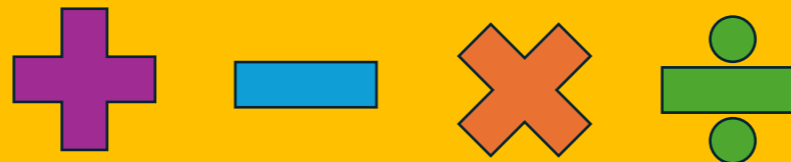
### Half Term 5

- Theoretical Probability
- Finding Missing probabilities
- Listing Outcomes
- Experimental Probability
- Calculating Probabilities of Two or More Events
- Venn Diagrams
- Set Theory
- Averages & Spread
- Averages from Frequency Tables
- Averages from Grouped Frequency Tables
- Generate Sequences from Term to Term Rules
- Generate Sequence from Position to Term Rules
- Nth Term

The full revision list along with some extra notes will be shared on your child's year group page and individual maths class page.



## KS3 Maths



## Skills to be assessed

Use and apply standard techniques:

- Accurately recall facts, terminology, and definitions
- Use and interpret notation correctly
- Accurately carry out routine procedures or set tasks requiring multi-step solutions.

Reason, interpret and communicate mathematically:

- Make deductions, inferences and draw conclusions from mathematical information
- Construct chains of reasoning to achieve a given result
- Interpret and communicate information accurately
- Present arguments and proofs
- Assess the validity of an argument and critically evaluate a given way of presenting information.

Solve problems within mathematics and in other contexts:

- Translate problems in mathematical or non-mathematical contexts into a process or a series of mathematical processes
- Make and use connections between different parts of mathematics
- Interpret results in the context of the given problem
- Evaluate methods used and results obtained
- Evaluate solutions to identify how they may have been affected by assumptions made.

## Resources to help revision



<https://www.mymaths.co.uk/>



<https://www.mathsdiy.com/>

mr barton maths

<https://www.mrbartonmaths.com/exams/gcse/gcse-maths-takeaway.html>

## How this will be assessed and graded?

- Two Assessments (1<sup>st</sup> Paper will be non-calculator / 2<sup>nd</sup> Paper will be calculator)
- Both papers to be sat in the week beginning – Monday 27<sup>th</sup> May
- The duration for each paper will be 60 minutes
- Equipment: Calculator, Pen(s), Pencil(s), Ruler, Compass, Protractor - (Rubber, Pencil Sharpener)