# Maths

# Year 7 Assessments

# May: End of Year

## Topics Areas to Revise

### Half Term 1
- Order Integers & Decimals
- Rounding (Integers to the nearest 10, 100, 1000 etc.)
- Rounding Integers
- Rounding Decimals
- Multiply & Divide by Powers of 10
- Generate a Linear Sequence
- Generate a Non-linear Sequence
- Recognize Sequences
- Prime Numbers & Factors
- HCF & LCM
- Powers - Read, Write & Evaluate
- Adding & Subtracting Integers & Decimals
- Adding & Subtracting Negative Numbers
- Multiplying Integers & Decimals
- Dividing Integers
- Dividing Integers & Decimals
- Dividing Integers Resulting in a Recurring Decimal
- BODMAS

### Half Term 2
- Inequality Symbols
- Estimation
- Introduction to Algebra
- Substitution
- Writing Expressions
- Distributive Law
- Use Cancellation
- Collecting Algebraic Terms
- Multiplying Algebraic terms
- Dividing Algebraic terms
- Expand Single Brackets
- Simplify More Complex Expressions
- Geometric Notation
- Properties of Triangles
- Missing Angles in Triangles
- Properties of Quadrilaterals
- Missing Angles in Quadrilaterals
- Classifying 2D & 3D Shapes
- Angles Around a Point / on a Straight Line
- Vertically Opposite Angles
- Missing Angles

### Half Term 3
- Fractions of Amounts
- Compare and Order Fractions and Decimals
- FDP
- Express a Quantity as a Percentage of Another
- Percentages of an Amount
- Compare Proportions of Amounts
- Percentage Increase/Decrease
- Simple Interest
- Types of Data
- Grouping Data (Discrete & Continuous Data)
- Mean & Mode
- Median & Range
- Comparing Data Using Averages
- Lines and Bar Chart
- Pictograms

### Half Term 4
- Adding & Subtracting Fractions
- Multiplying & Dividing Fractions
- Mixed Number Conversion
- Language of Probability & Probability Line
- Theoretical Probability
- Experimental Probability
- Expected Probability
- Area of a Parallelogram
- Area of a Triangle
- Area of a Trapezium
- Area of a Circle
- Circumference of a Circle
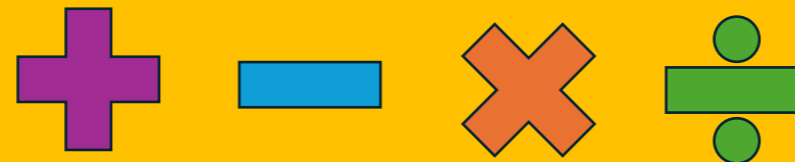- Volume of a Cuboid
- Surface Area of a Cuboid

### Half Term 5
- Pie Charts
- Scatter Graphs (Construct & Understand Correlation)
- Scatter Graphs (Interpret: Including Conversion)
- Factorise Linear Equations (Recap Expand Single Brackets)
- Factorise Linear Equations
- Read & Write Equations
- Solve One & Two Step Equations
- Solve Two-Step Equations
- Solve Two-Step Equations
- Solve Equations with a Negative 'x'

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

### MyMaths
https://www.mymaths.co.uk/

### MATHSDIY
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 (1st Paper will be non-calculator / 2nd Paper will be calculator)
- Both papers to be sat in the week beginning – Monday 20th May
- The duration for each paper will be 40 minutes

- Equipment: Calculator, Pen(s), Pencil(s), Ruler, Protractor - (Rubber, Pencil Sharpener)