Maths

Year 8 Assessments

May: End of Year

Topics Areas to Revise

Half Term 1
- Rounding
- Upper & Lower Bounds
- Generate a Sequence
- Finding Nth Term
- Positive Indices
- Index Laws (Positive Indices)
- Index Laws (Negative Powers)
- Prime Factorisation
- HCF & LCM of Two Numbers
- Solve Prime Factorisation Problems
- Using Negative Numbers (All Four Operations)
- Multiplying Integers & Decimals
- Dividing Integers & Decimals
- Dividing Integers Resulting in a Recurring Decimal
- BODMAS
- Write Expressions, Inequalities & Equations
- Collect Terms Involving Indices

Half Term 2
- Expand a Single Bracket
- Factorise Expressions
- Simplify Expressions
- Angles Basics (including acute/obtuse/reflex)
- Angles on Parallel Lines
- Missing Angles in Geometric Diagrams
- Interior Angles in a Polygon
- Angles in Triangles (Equilateral / Isosceles / Right-Angle)
- Interior & Exterior Angles
- Perimeter of Composite Shapes
- Circumference of a Circle
- Area of Shapes (Formula) - Finding the Area
- Area of Shapes (Formula) – Finding Missing Sides
- Area of a Composite Shapes
- Area of a Circle
- Surface Area
- Volume

Half Term 3
- FDP
- Percentages of an Amount
- Percentage Increase/Decrease
- Percentage Change
- Calculate an Original Amount
- Calculate Simple Interest
- Calculate Compound Interest
- Mixed Number Conversion
- Adding & Subtracting Proper Fractions
- Adding & Subtracting Mixed Numbers
- Multiplying & Dividing Fractions and Mixed Numbers
- Mixed Operations with Fractions
- Theoretical Probability
- Find a Missing Probability
- Calculating Probabilities
- Recording Outcomes
- Calculating Probabilities
- Venn Diagrams

Half Term 4
- Solving Equations
- Construct & Solve Equations
- Rearranging Formula
- Substitution
- Trial & Improvement
- Averages & Range
- Grouping Data (Discrete & Continuous Data)
- Frequency Tables
- Grouped Frequency Tables (Discrete)
- Grouped Frequency Tables (Continuous)

Half Term 5
- Scatter Graphs (Construct)
- Scatter Graphs (Interpret)
- Pie Charts (Interpret)
- Pie Charts (Construct)
- Pythagoras Theorem
- Rotation (Including Describing)
- Reflection (Including Describing)
- Translation with Vectors (Including Describing)
- Enlargement - Positive Scale Factor (Including Describing)
- Congruent and Similar Shapes

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

Microsoft Teams

KS3 Maths
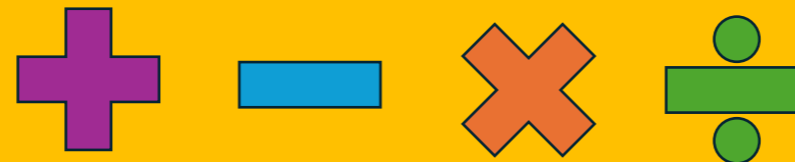
Skills to be assessed

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)