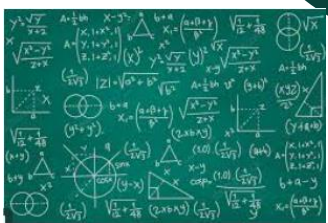
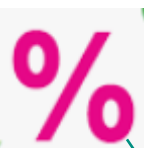


Mathematics Department LEARNING JOURNEY



GCSE Maths

Students assessed at the end of each topic. There is also a consolidation assessment at the end of each full term.



Targeted revision topics and material

Pinpointed topics from Mocks used to inform revision focus.
<https://www.pinpointlearning.co.uk/>

Revision & mastery: Exam Technique and past paper practice

Problem Solving
- Multiplicative
- Geometric
- Algebraic

Transformations and Constructions

Functions
Changing the Subject

Mock exam preparation

Paper 3 Calculator

Paper 2 Calculator

Paper 1 Non Calculator



Corbettmaths

Applying skills to problem solving tasks, directly relating to reading and answering exam questions

Fibonacci Sequence
1, 1, 2, 3, 5, 8, 13

YEAR
11

Number Skills

Sequences

Indices And Roots

Algebraic Expressions

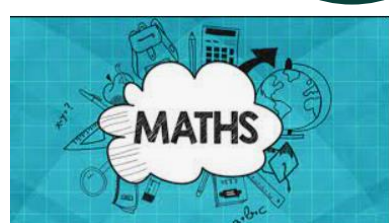
Gradients And Lines

Non Linear Graphs

Expanding and Factorising

Striving for those top marks whilst focussing on algebra skills

Focus on the accuracy needed for non-calculator paper



Home learning focus on exam papers, skills and techniques

Foundation and Higher visit the same topics, Higher to a greater depth.

Ratio and Fractions

Vectors

Circles

Angles and Bearings

Simultaneous Equations

Equations and Inequalities

Trigonometry

Congruence, Similarity and Enlargement

YEAR
10

Algebraic Manipulation

Introduction to exam questions and technique.

Syllabus is now split into Higher and Foundation content.

Interest, bank accounts, bills.

A continuation of proof. Looking at the nature of numbers.

Emphasising the need to be accurate and precise whilst revisiting and stretching number topics.

Maths and Money

Deduction

Rotations And Translations

Pythagoras

Enlargements

Ratio and Proportion

Rates

Probability

Percentages

Number

Construction and Congruency

3D Shapes

Conjecture

Equations

Straight Line Graphs

YEAR
9

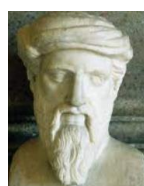
Data Handling

Geometry

Areas and volumes of more complex shapes, bearings, an introduction to similarity.

Delving deeper into data handling techniques. Set, set notation and Venn diagrams.

The most famous mathematician and his triangles!



More information can be found at <https://whiteroseeducation.com/>

White Rose EDUCATION

Practise using compasses and protractors.

Starting to introduce some proof ideas here.

Starting to use the White Rose Maths curriculum here.

From planning, collecting, analysing and conclusion, we look at the data cycle and what that means for the information around us.

Learning to apply our basic laws of algebra to solve more complex equations and plot graphs.

Accurate mathematical drawing. Using compasses and protractors. Transformation and shapes.

Data Handling

YEAR
8

Number

Algebra

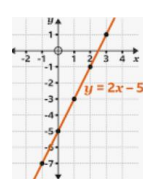
Ratio and

Geometry

Learning to use specialist mathematical equipment.

All things fractions, percentages, decimals and ratio!

Exploring number in more detail. Including higher level number skills: standard form and index laws.



Looking at more complex percentage change techniques and how it relates to interest. Direct and inverse proportion become more mathematical.

An introduction to all things x related!

Ratio and Proportion

Algebra

Number

YEAR
7

Converting between FDP and ratio. Applying number and algebra skills to ratio and proportion. Using the 4 operations to solve problems.



Beginning with the basic laws of algebra and progressing on to learning about equations and sequences.

A huge roundup of the 4 operations, types of number, rounding and BIDMAS skills.



FRACTION	DECIMAL	PERCENT
$\frac{1}{10}$	0.1	10%
$\frac{1}{5}$	0.2	20%
$\frac{1}{4}$	0.25	25%
$\frac{1}{2}$	0.5	50%
$\frac{3}{4}$	0.75	75%
$\frac{1}{1}$	1.0	100%