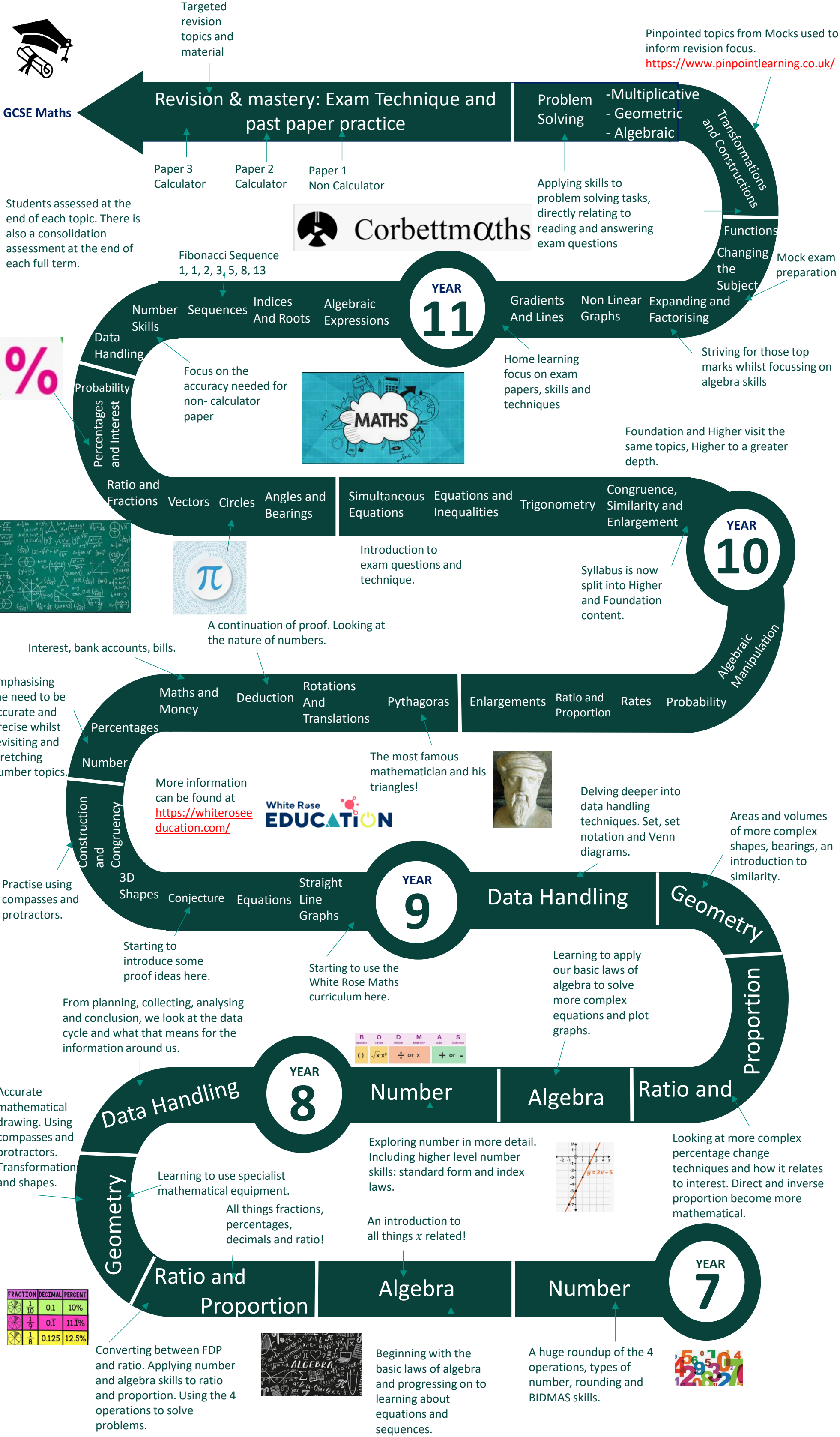
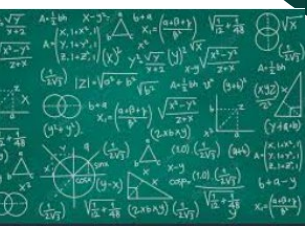


Mathematics Department LEARNING JOURNEY



GCSE Maths

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



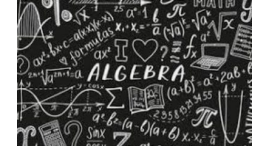
Emphasising the need to be accurate and precise whilst revisiting and stretching number topics.

Practise using compasses and protractors.

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

FRACTION	DECIMAL	PERCENT
$\frac{1}{10}$	0.1	10%
$\frac{1}{9}$	0.111...	11.1%
$\frac{1}{8}$	0.125	12.5%

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.

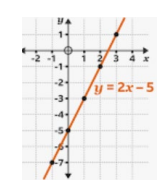


YEAR 8

Number

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

An introduction to all things x related!



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

YEAR 9

Number

Starting to use the White Rose Maths curriculum here.

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



The most famous mathematician and his triangles!



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

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

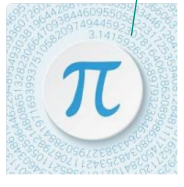
YEAR 10

Algebraic Manipulation

Introduction to exam questions and technique.

Syllabus is now split into Higher and Foundation content.

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



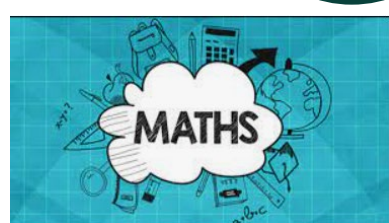
Interest, bank accounts, bills.

Congruence, Similarity and Enlargement

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

Home learning focus on exam papers, skills and techniques

Striving for those top marks whilst focussing on algebra skills



Focus on the accuracy needed for non-calculator paper

YEAR 11

Corbettmaths

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

Mock exam preparation

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

Revision & mastery: Exam Technique and past paper practice

Paper 3 Calculator, Paper 2 Calculator, Paper 1 Non Calculator

Targeted revision topics and material

Problem Solving - Multiplicative, Geometric, Algebraic

Transformations and Constructions

Functions

Changing the Subject

Expanding and Factorising, Non Linear Graphs, Gradients and Lines

Algebraic Expressions, Indices and Roots, Sequences, Number Skills

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

Data Handling

Percentages and Interest, Probability

Ratio and Fractions

Vectors

Circles

Angles and Bearings

Simultaneous Equations

Equations and Inequalities

Trigonometry

Congruence, Similarity and Enlargement

YEAR 10

Algebraic Manipulation

Enlargements, Ratio and Proportion, Rates, Probability

Percentages

Number

Construction and Congruency

3D Shapes

Conjecture

Equations

Straight Line Graphs

YEAR 9

Data Handling

Geometry

Proportion

YEAR 8

Number

Algebra

Ratio and

YEAR 7

Algebra

Number

YEAR 7

Ratio and Proportion

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