



Maths KS4

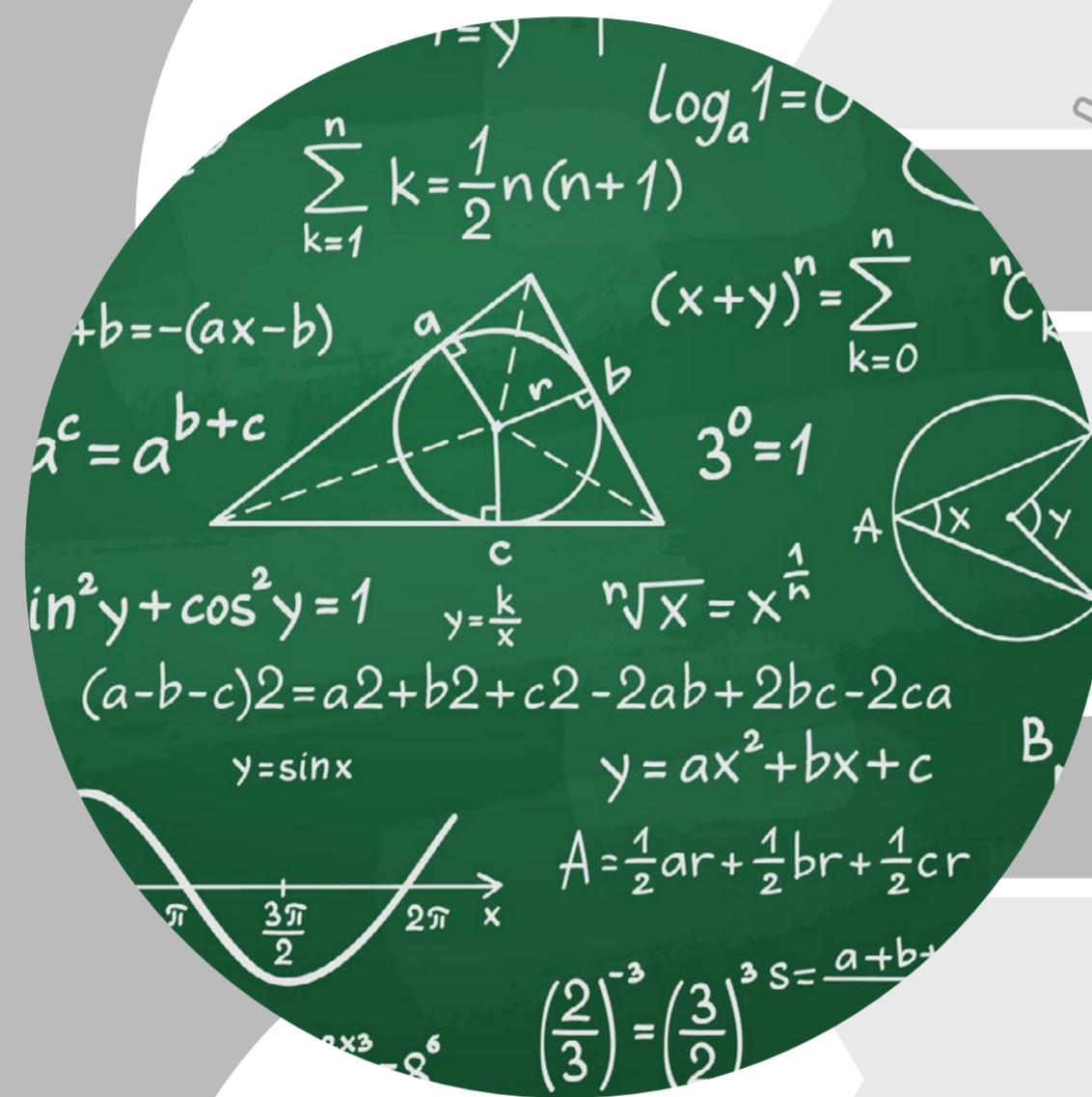


Mastery in Year 11

- Understand and Interpret Graphs and Algebra: Be able to explain, contextualise, and apply advanced graphing techniques and algebraic methods to solve complex mathematical problems.
- Develop Mathematical Reasoning and Problem-Solving Skills: Be able to construct logical arguments, develop proofs, and tackle multi-step problems, demonstrating advanced reasoning and critical thinking skills.
- Revise Key Concepts and Communicate Mathematical Ideas: Be able to review and consolidate key mathematical concepts, effectively communicate mathematical reasoning, and apply knowledge to various contexts in preparation for exams and real-world applications.

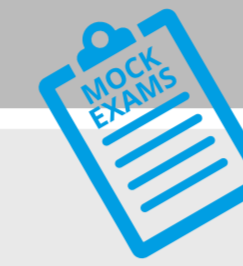
Mastery in Year 10

- Explore Similarity and Geometry: Be able to explain, contextualise, and apply concepts of similarity and geometric proportions, including transformations and properties of shapes.
- Develop Advanced Algebra and Understand Proportional Change: Be able to explain, contextualise, and solve complex algebraic problems, and understand and apply concepts of proportional change in various contexts.
- Analyse and Interpret Data with Numerical Fluency: Be able to collect, represent, and interpret data, develop statistical understanding, and build fluency with numbers and algebraic expressions.



REVISION AND COMMUNICATION

Transforming and constructing.
Listing and describing.
Show that...



MOCK EXAMS AND REVISION

What do I need to do to improve my grade?



REVISION AND COMMENCEMENT OF EXTERNAL EXAMS

TRANSITION

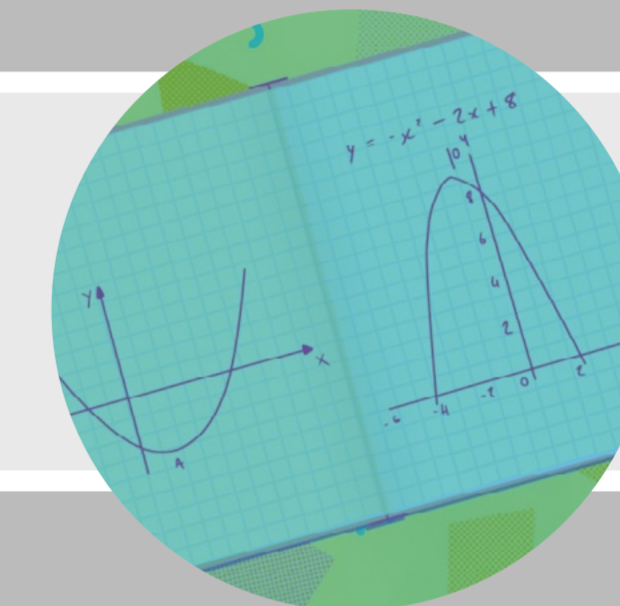
REASONING

Multiplicative.
Geometric.
Algebraic.



ALGEBRA

Expanding and factorising.
Changing the subject.
Functions.



EXPRESSIONS

Manipulating expressions



YEAR 11

GRAPHS

Gradients and lines.
Non-linear graphs.
Using graphs.



USING NUMBER

Non-calculator methods.
Types of number and sequences.
Indices and roots.



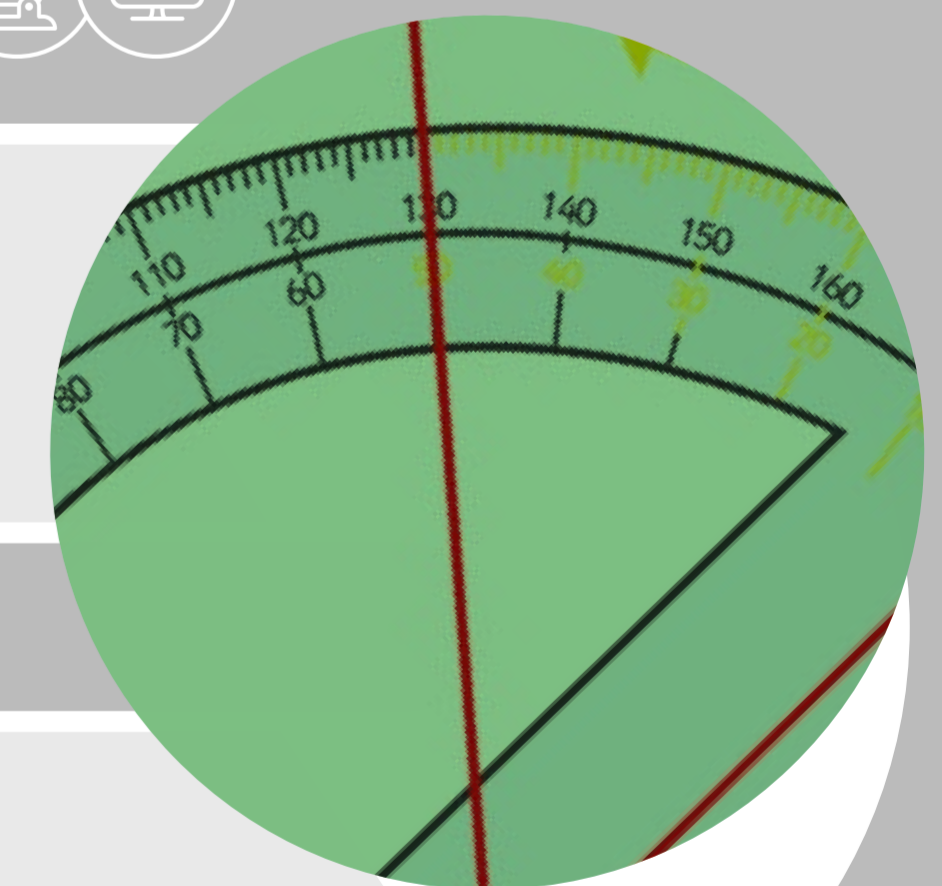
DELVING INTO DATA

Collecting, representing and interpreting data.



PROPORTIONS AND PROPORTIONAL CHANGE

Ratios and fractions. Percentages and interest. Probability.



YEAR 10

SIMILARITY

Congruence and similarity.



DEVELOPING ALGEBRA

Representing solutions of equations and inequalities.



GEOMETRY

Angles and bearings.
Working with circles.
Vectors.

