Year 11 Foundation Scheme of Learning

MODULE 1

Bishop Chadwick
Catholic Education Trust

Bespoke revision

Perimeter, area & volume

Bounce back: Constructions & Loci

Quadratic equations

Compound measures

Percentages, including interest

Year 11

Indices & standard form

Bounce back: Quadratic equations

Constructions & Loci

Probability & diagrams

Perimeter, area & volume

Averages

Angles & Transformations

Straight line & other graphs

Expressions & equations

Graphs

Year 10

Pythagoras & Trigonometry

Fractions & percentages

Sequences

Pythagoras & Trigonometry

Ratio & proportion

Data handling

Handling data & measures of location

Angles in parallel lines, lines & polygons

Fractions & percentages

Algebra: including substituting & brackets

Year 9

Sequences & Indices

Number; including index laws

Area of trapezia & circles; Line symmetry & reflections

Standard form & number sense

Sets & probability

Proof

Multiplicative reasoning

Working in Cartesian plane

Brackets, equations & inequalities

Ratio & proportion

Year 8

Fraction arithmetic

Geometric reasoning

Prime numbers

Ratio & scale

Multiplying & dividing fractions

Representing data, tables & probability

Operations with equations & directed numbers

Fraction & % of amounts

Fractions, decimals & percentages

Use and understand algebraic notation

Place value and ordering, including decimals

Year 7

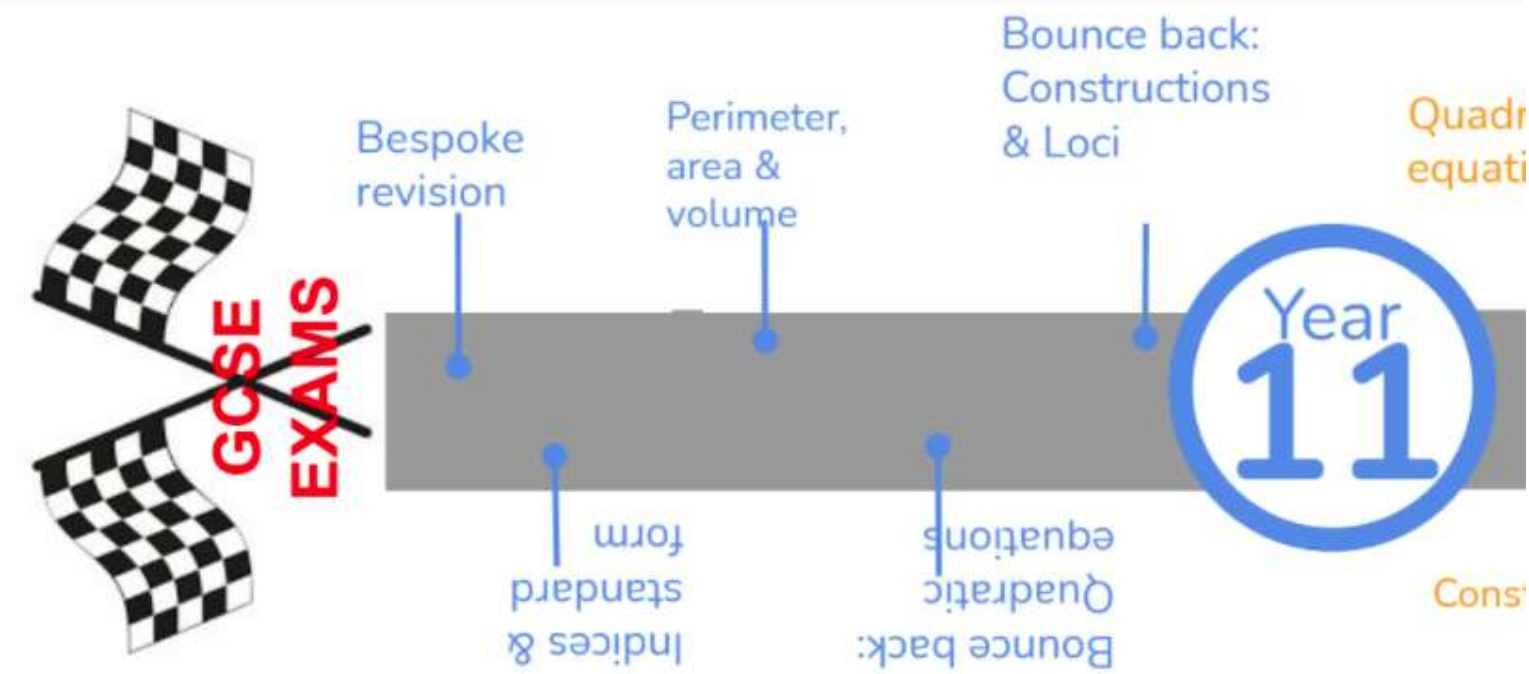
Problem solving with four main operations

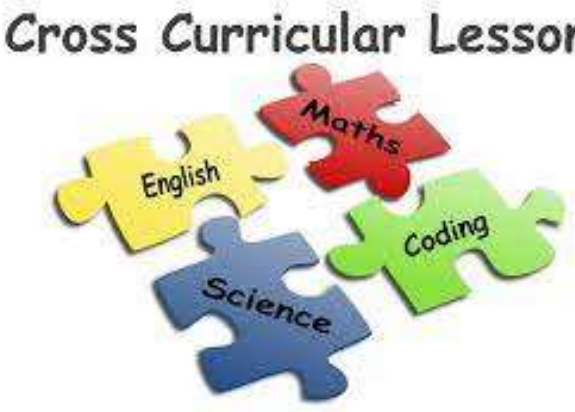
Equality & Equivalence - solving equations

Sequences

Core/Foundation 2021/22 *(includes Y11 bounce back)*

This is what your child will be taught as part of the GCSE foundation course in Year 11 in their MATHS lessons.





They will have also have specific lessons linked to other subjects and a diet of retrieval built into their lessons.

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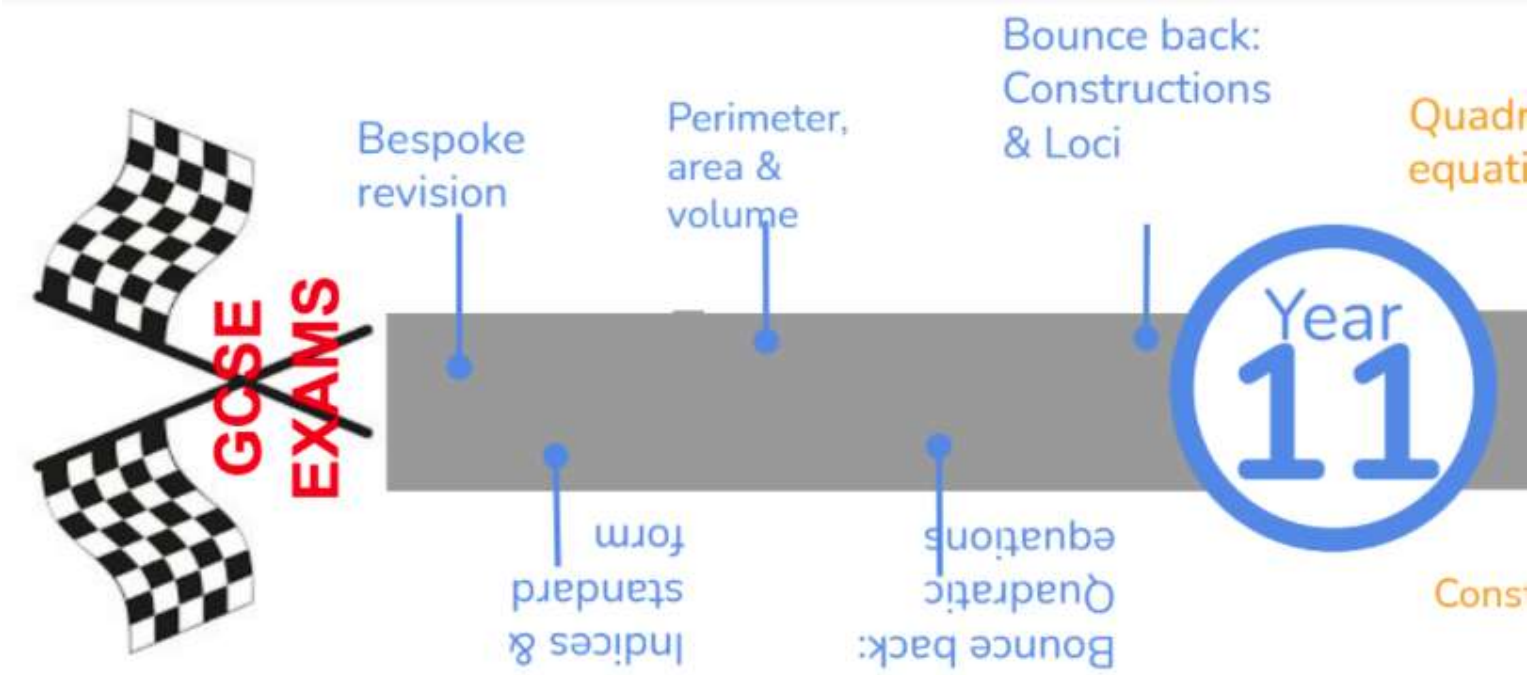
In Year 11 Module 1 your child will study only two topics due to time being allocated for revision and mock examinations. The two topics are:

- Constructions & loci
- Quadratic equations & graphs



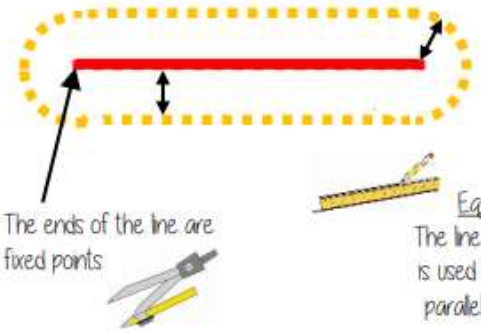
The Year 11 scheme of learning includes elements of our 'bounce back' scheme, which takes into account the periods of lockdown.

Constructions & Loci

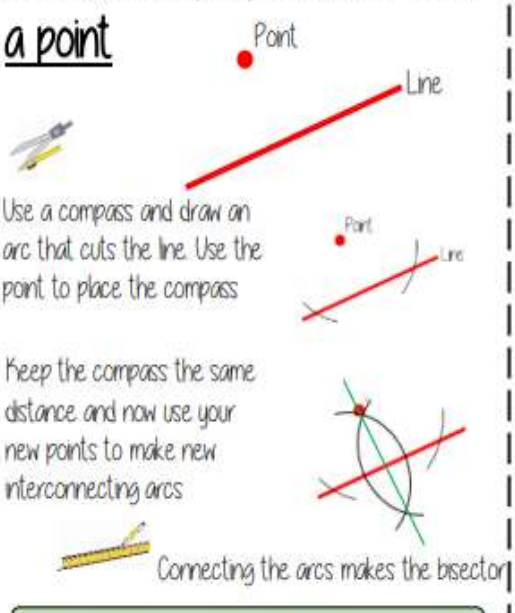
Topics covered in this unit include:

- Plans and elevations
- Scale drawing
- Constructing triangles, bisectors to angles and lines
- Loci
- Bearings

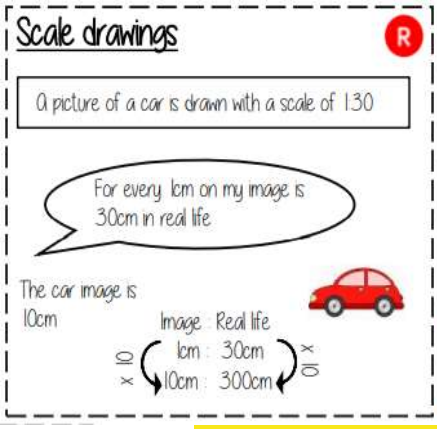
Locus of a distance from a straight line



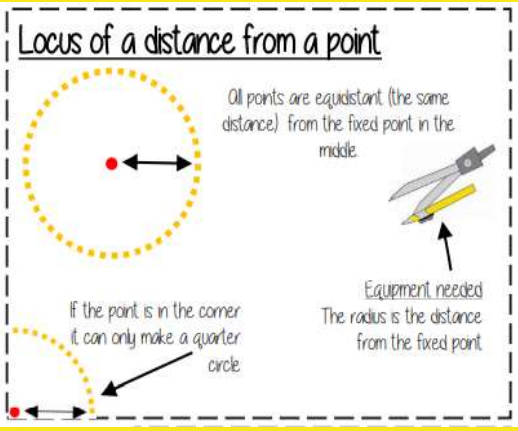
Construct a perpendicular from a point



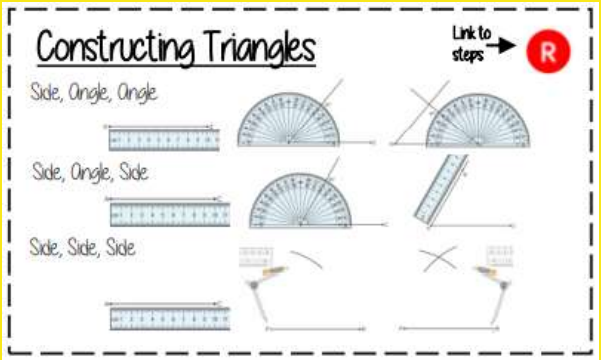
Scale drawings



Locus of a distance from a point



Constructing Triangles



Keywords

Protractor: piece of equipment used to measure and draw angles
Locus: set of points with a common property
Equidistant: the same distance
Discorectangle: (a stadium) – a rectangle with semi circles at either end
Perpendicular: lines that meet at 90°
Arc: part of a curve
Bisector: a line that divides something into two equal parts
Congruent: the same shape and size

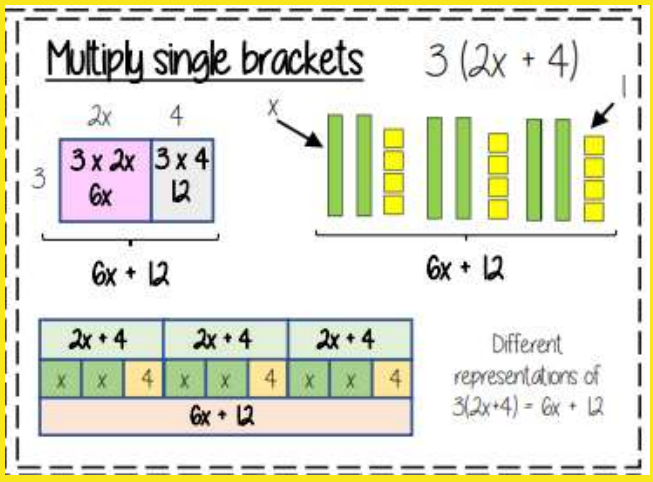
In the algebra unit your child will study:

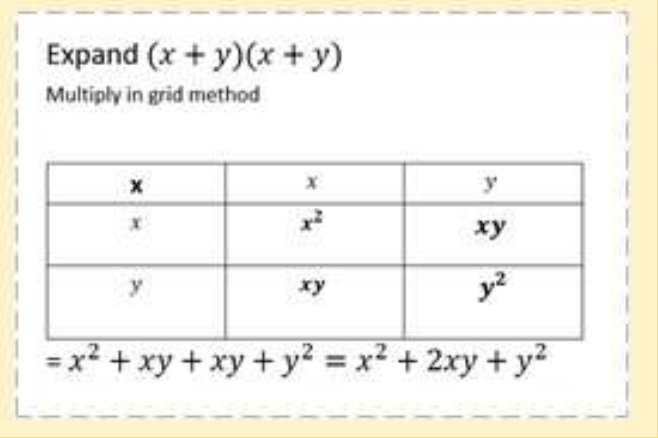
- Expanding double brackets
- Solving by factorising
- Plotting and using quadratic graphs
- Plotting cubic and reciprocal graphs
- Graphs of proportionality.

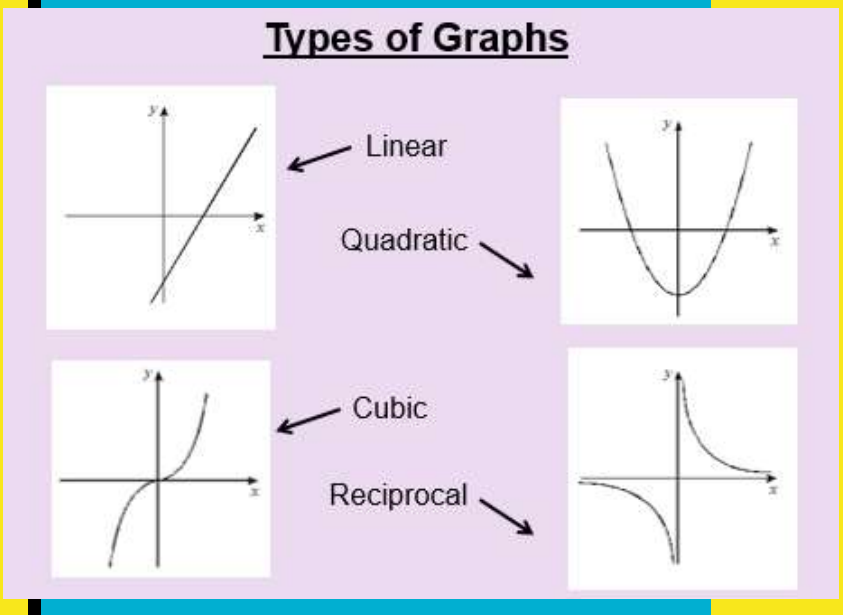
Keywords

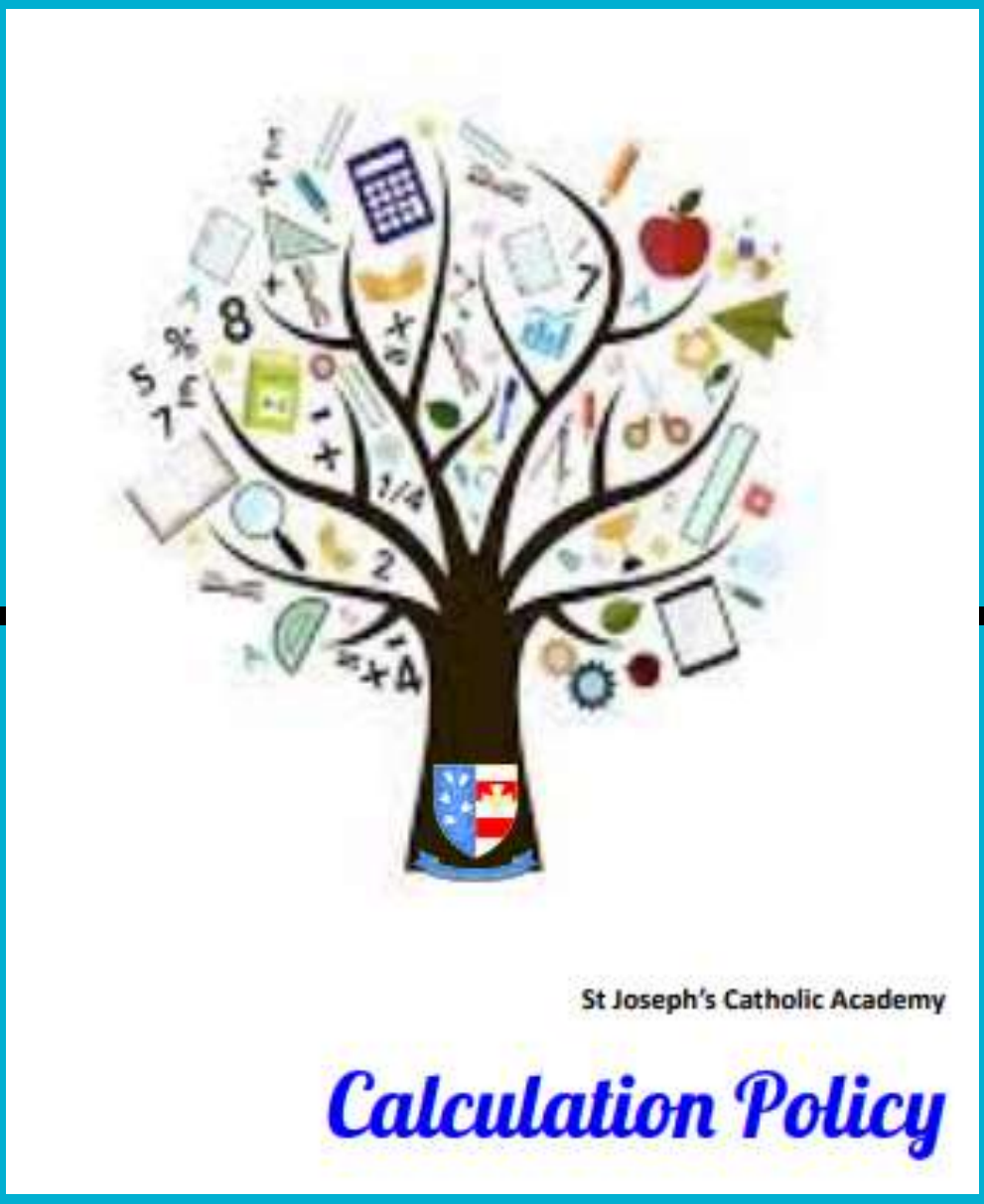
Simplify: grouping and combining similar terms
Substitute: replace a variable with a numerical value
Equivalent: something of equal value
Coefficient: a number used to multiply a variable
Product: multiply terms
Highest Common Factor (HCF): the biggest factor (or number that multiples to give a term)
Inequality: an inequality compares who values showing if one is greater than, less than or equal to another

Unit 2: ALGEBRA







We recommend pupils have a Casio scientific calculator.
The Casio calculator featured is the one we use when demonstrating in lessons.

On our school website there is a calculation policy showing the methods we use for common operations. It can be found at: Our School > Policies