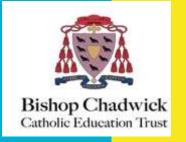
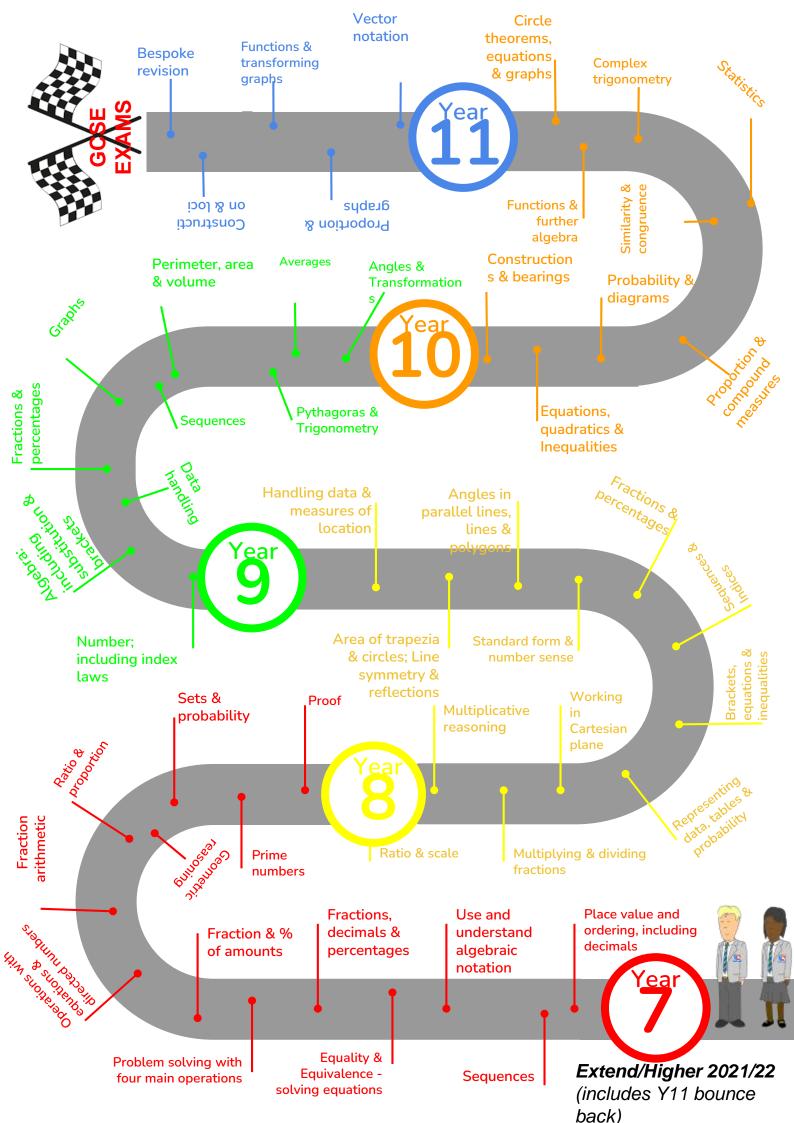


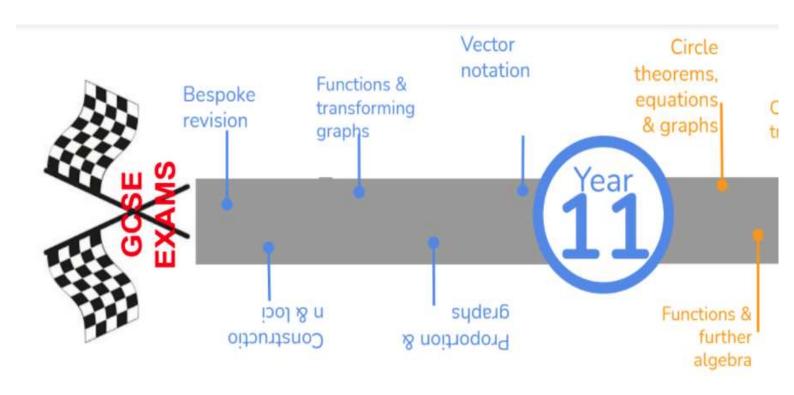
## Year 11 Higher Scheme of Learning

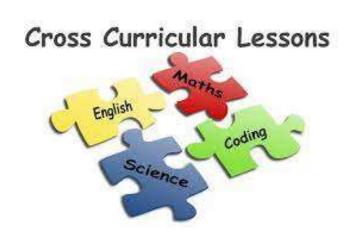
**MODULE 2** 





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





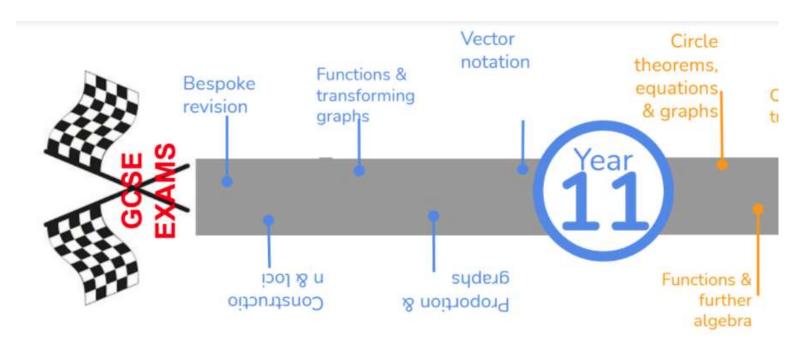




They will have also have specific lessons linked to other subjects and a diet of retrieval built into their lessons.

#### In Year 11 Module 2 your child will study:

- Vectors
- Proportion and graphs
- Constructions and loci



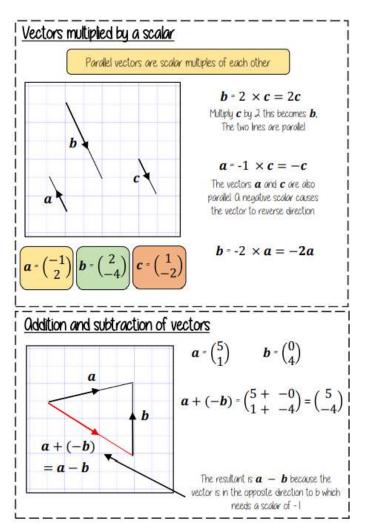
The Year 11 scheme of learning includes elements of our 'bounce back' scheme, which takes into account the periods of lockdown.



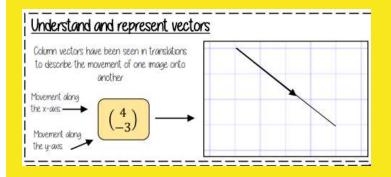
### **Vectors**

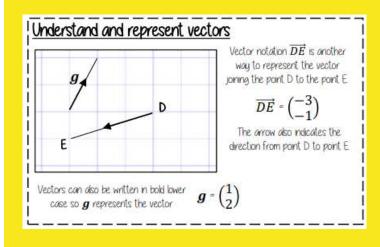
#### In this Unit students will study:

- Vector notation
- Vector arithmetic
- Vector proof









#### Keywords

**Direction:** the line our course something is going Magnitude: the magnitude of a vector is its length

Scalar: a single number used to represent the multiplier when working with vectors.

Column vector: a matrix of one column describing the movement from a point

Resultant: the vector that is the sum of two or more other vectors

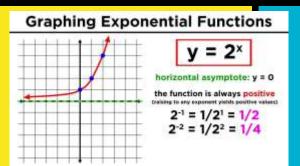
Parallel straight lines that never meet

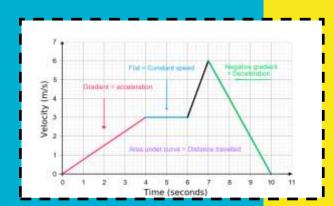
In the algebra unit your child will study:

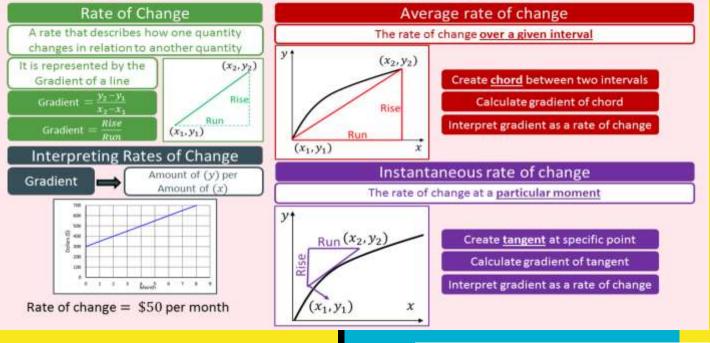
- Solving problems with direct and inverse proportion using algebra
- Proportionality graphs
- Exponential graphs
- Velocity-Time graphs
- Transforming graphs

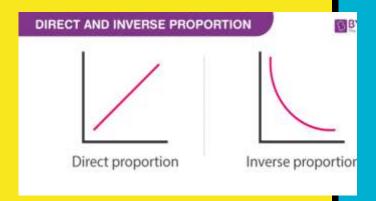


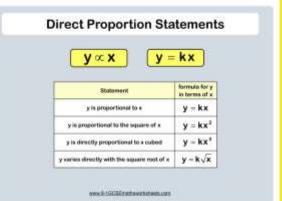
#### **Proportion and Graphs**







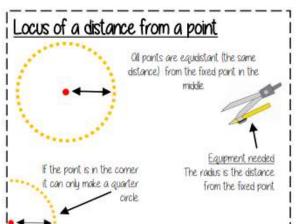




## Constructions and Loci

In this Unit students will study:

- Constructing triangles and bisectors
- Loci
- Bearings and scale drawing





#### Keywords

Protractor: piece of equipment used to measure and draw angles

Locus: set of points with a common property

Equidistant: the same distance

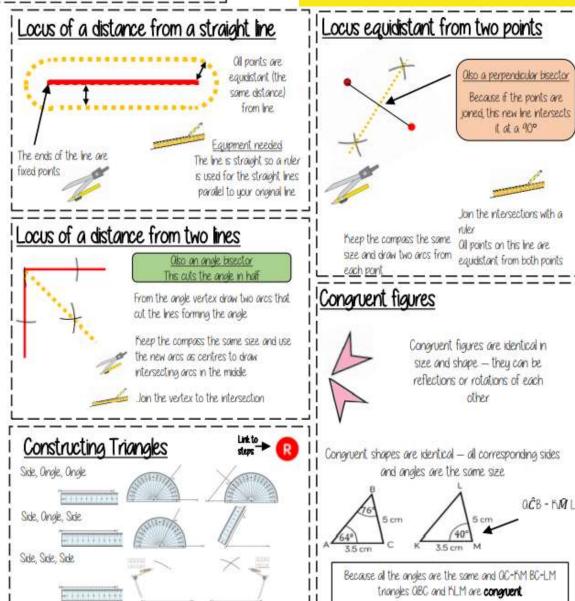
Discorectangle: (a stadium) — a rectangle with semi circles at either end

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



## We recommend pupils have a Casio scientific calculator.

The Casio calculator featured is the one we use when demonstrating in lessons.



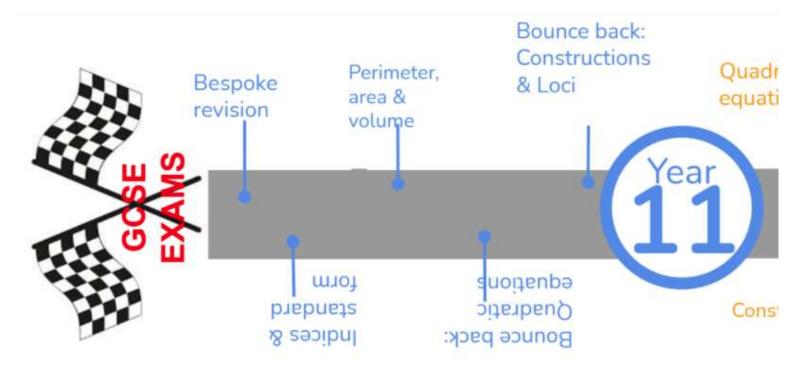
# On our school website there is a calculation policy showing the methods we use for common operations. It can be found at: Our School > Policies



St Joseph's Catholic Academy

Calculation Policy

#### **Moving into Module 3**



The Year 11 scheme of learning includes bespoke revision in order to prepare our students for their external examinations.

Module 2 ends our delivery of new content.

Module 3 concentrates on revision centred around the needs of your child.

