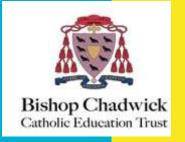
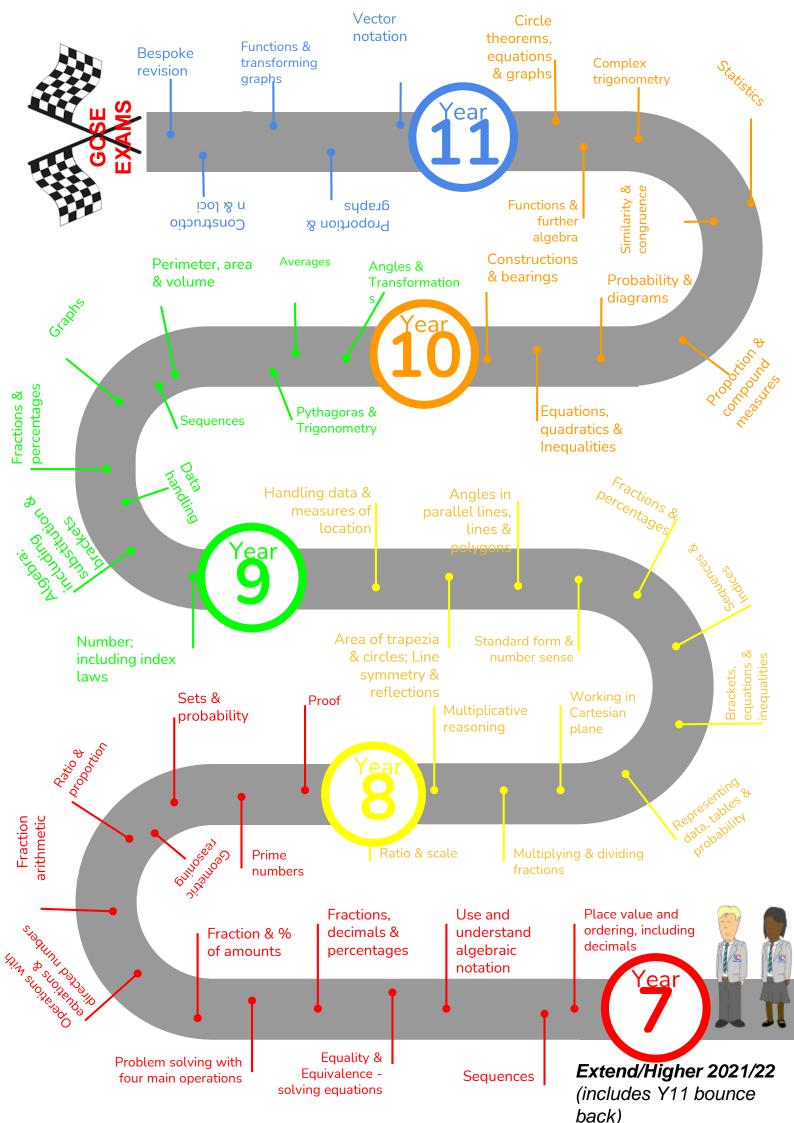


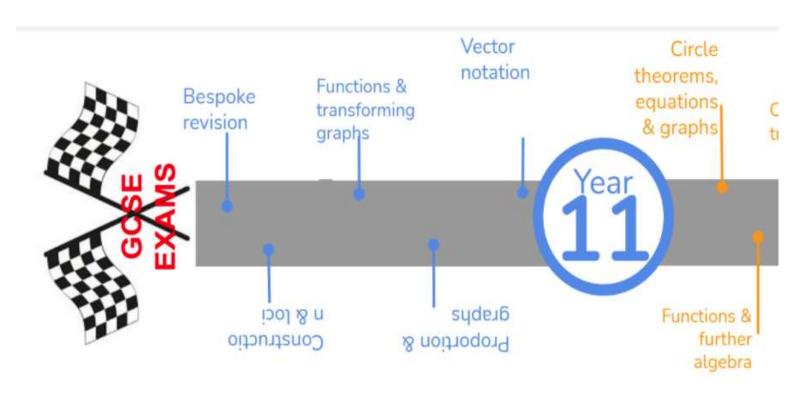
Year 11 Higher Scheme of Learning

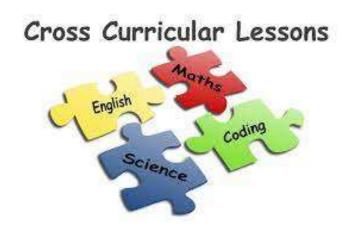
MODULE 1





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





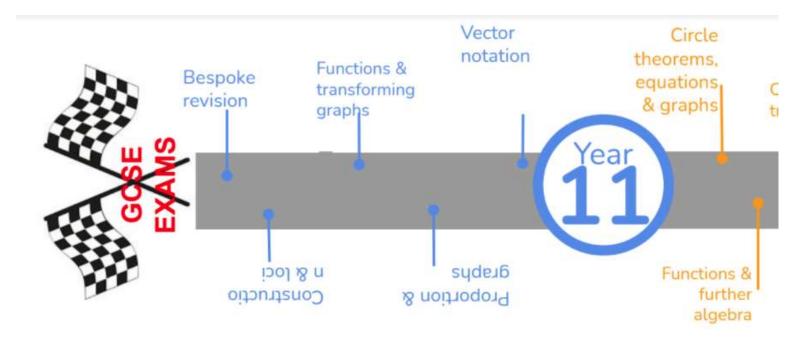




They will have also have specific lessons linked to other subjects and a diet of retrieval built into their lessons.

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

- Circle Theorems
- Functions and Further algebra



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

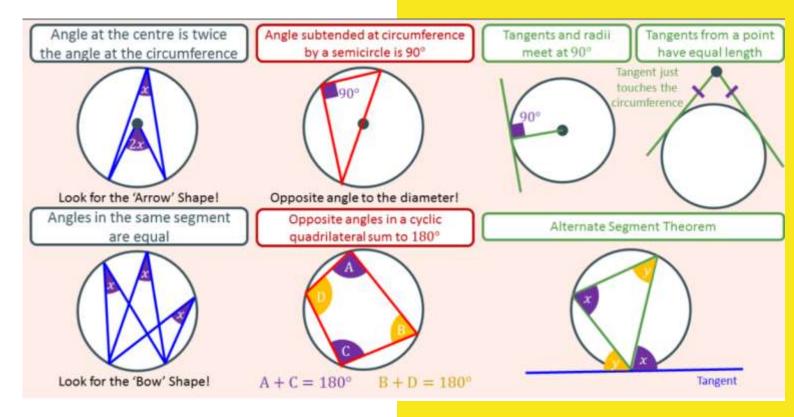


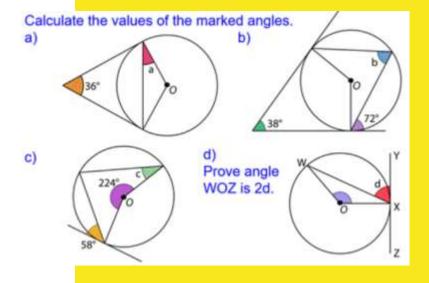
Circle Theorems

In this Unit students will learn

- How to recognise each Circle Theorem
- How to apply each Circle Theorem
- How to prove each Circle Theorem





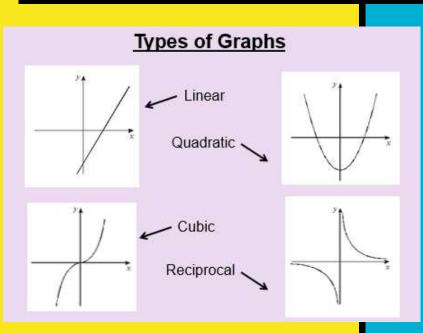


In the algebra unit your child will study:

- Expanding cubic functions
- Types of graphs
- Composite functions
- Rearranging formulae
- Algebraic fractions
- Algebraic proof



Unit 2: FUNCTIONS and FURTHER ALGEBRA

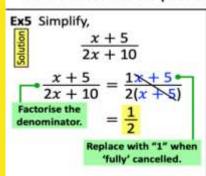


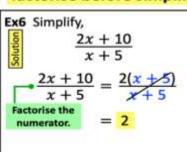
Rearrange the formula $a = x + \frac{cx}{d}$.to make x the subject.

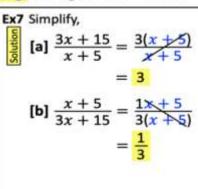
Method -
$$a = x + \frac{cx}{d}$$

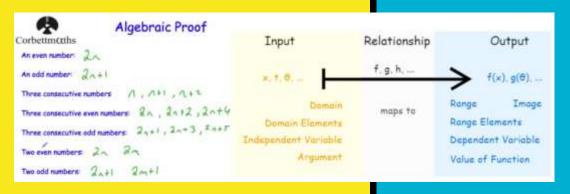
 $ad = dx + cx$ multiply both sides by d
 $dx + cx = ad$ rearrange to get x's on the left
 $x(d+c) = ad$ factorise
 $x = \frac{ad}{d+c}$ divide by $(d+c)$

Sometimes it's helpful to factorise before simplifying an algebraic fraction.









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