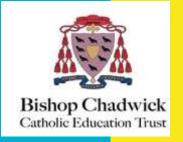
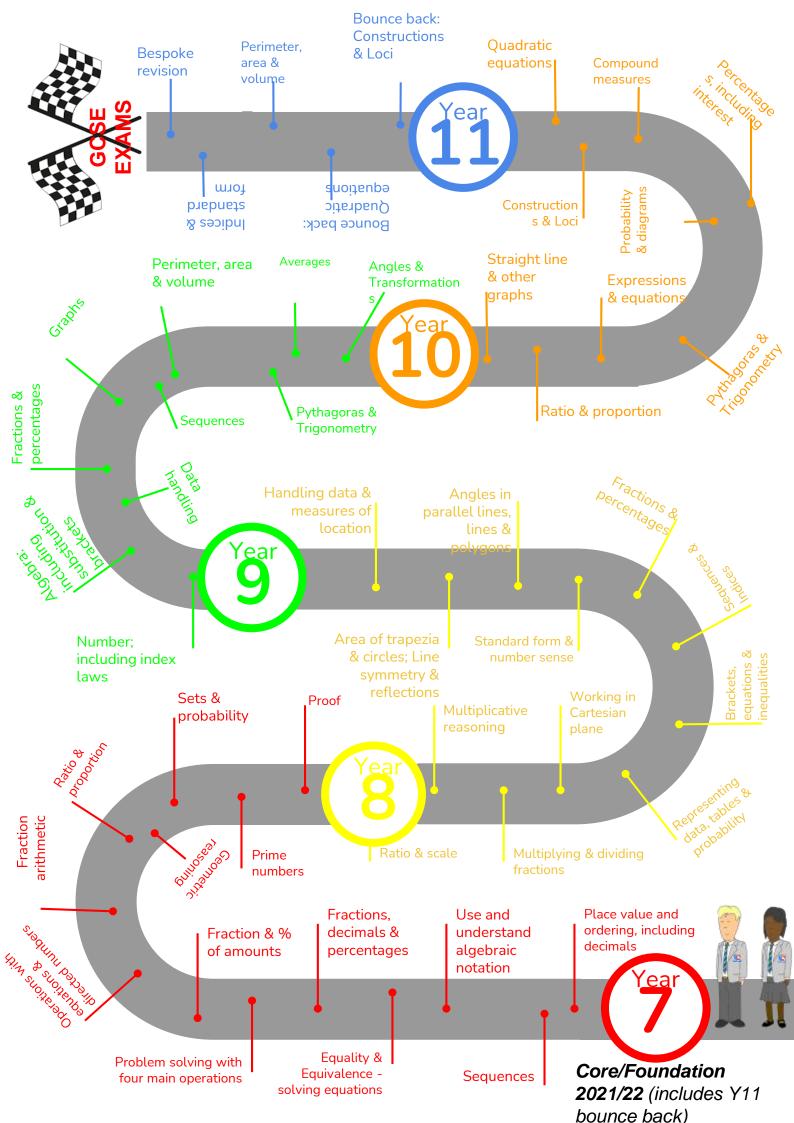


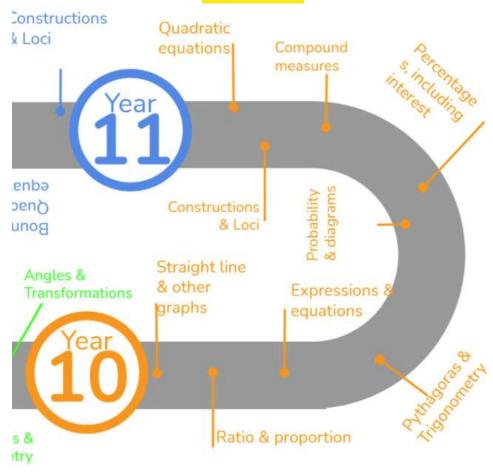
# Year 10 Foundation Scheme of Learning

**MODULE 1** 

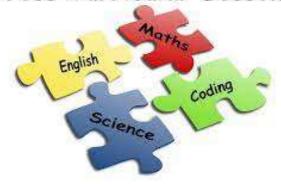


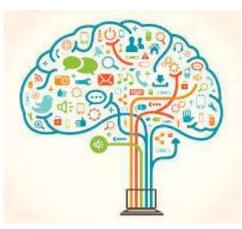


# This is what your child will be taught as part of the GCSE foundation course in Year 10 in their MATHS lessons.







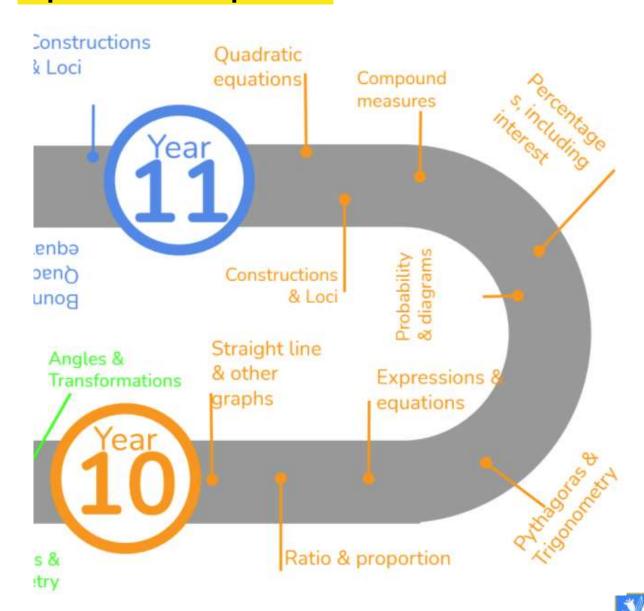




They will have also have specific lessons linked to other subjects and a diet of retrieval built into their lessons.

# In Year 10 Module 1 your child will study the following topics:

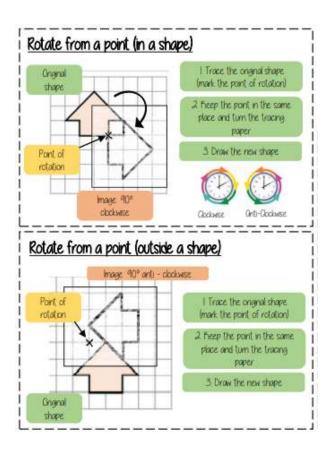
- Transformations
- Straight line and other graphs
- Ratio & proportion
- Expressions & equations

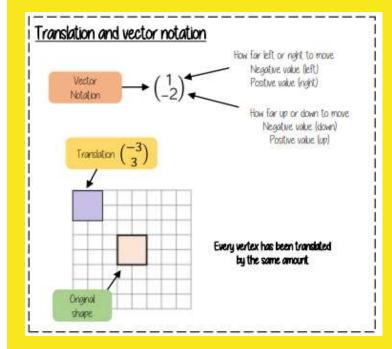


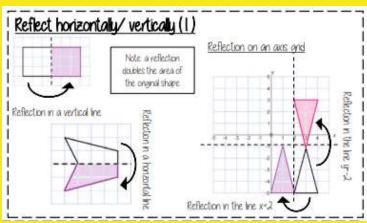
# **Transformations**

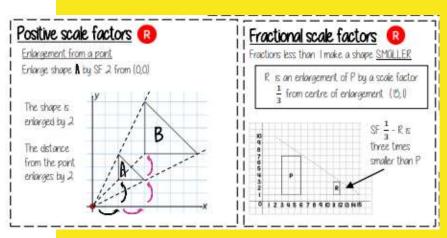
Topics covered in this unit include:

- Rotations
- Reflections
- Translations
- Enlargements by integer and fraction scale factor
- Describing transformations









### Keywords

Rotate: a rotation is a circular movement

Summetry: when two or more parts are identical after a transformation

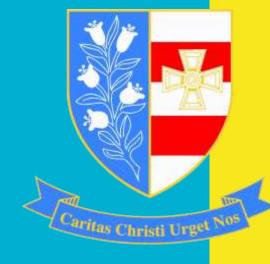
Regular: a regular shape has angles and sides of equal lengths Invariant: a point that does not move after a transformation.

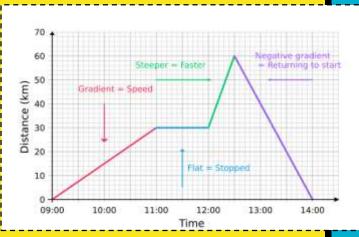
**Vertex:** a point two edges meet. **Horizontal:** from side to side **Vertical:** from up to down



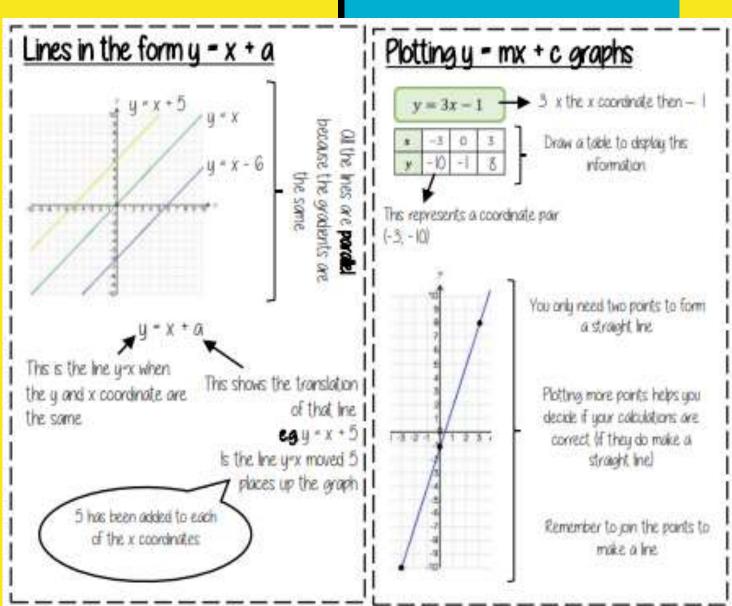
### In this unit your child will study:

- Plotting straight line graph
- Finding the equation of a straight line
- Conversion graphs
- Distance time graphs





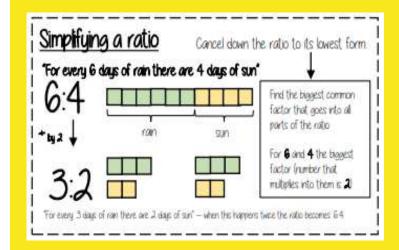
### **GRAPHS**

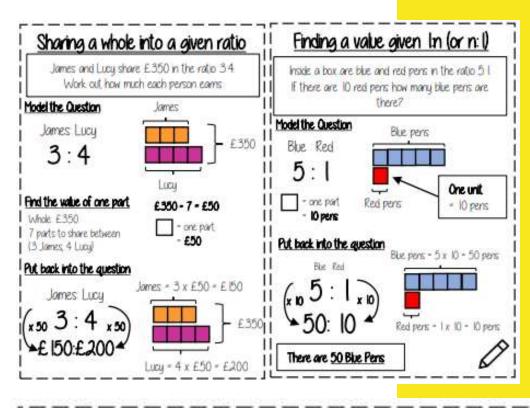


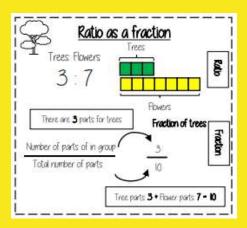
# **Ratio & Proportion**

Topics covered in this unit include:

- Simplifying ratio
- Dividing into given ratio
- Ratio and fractions
- Problem solving
- Best buys
- Direct & inverse proportion







# Keywords

Ratio: a statement of how two numbers compare

Equal Parts: all parts in the same proportion, or a whole shared equally

**Proportion:** a statement that links two ratios

Order: to place a number in a determined sequence

Part: a section of a whole Equivalent: of equal value

Factors: integers that multiply together to get the original value

Scale: the comparison of something drawn to its actual size.

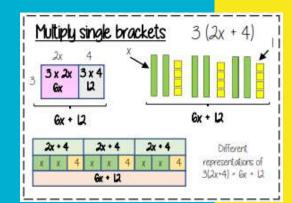


## **Expressions & Equations**



In this unit your child will study:

- Simplifying expressions
- Index laws
- Expanding single brackets
- Solving equations, including ones with unknowns on both sides



## Keywords

Solution: a value we can put in place of a variable that makes the equation true

Variable: a symbol for a number we don't know yet

**Equation:** an equation says that two things are equal — it will have an equals sign =

Expression: numbers, symbols and operators grouped together to show the value of something

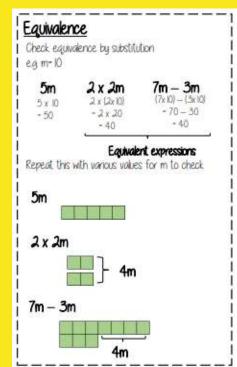
**Identity:** On equation where both sides have variables that cause the same answer includes =

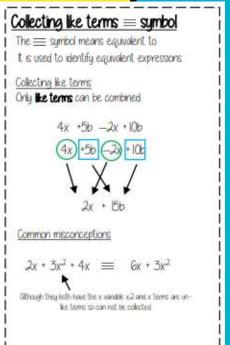
Linear: an equation or function that is the equation of a straight line

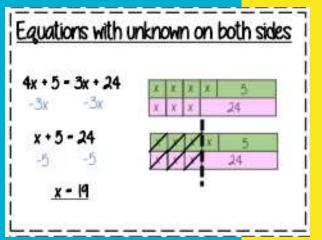
intersection: the point that two lines meet

**Inequality:** an inequality compares two values showing if one is greater than, less than or equal to

another







# 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