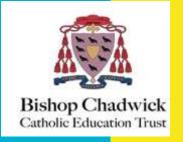
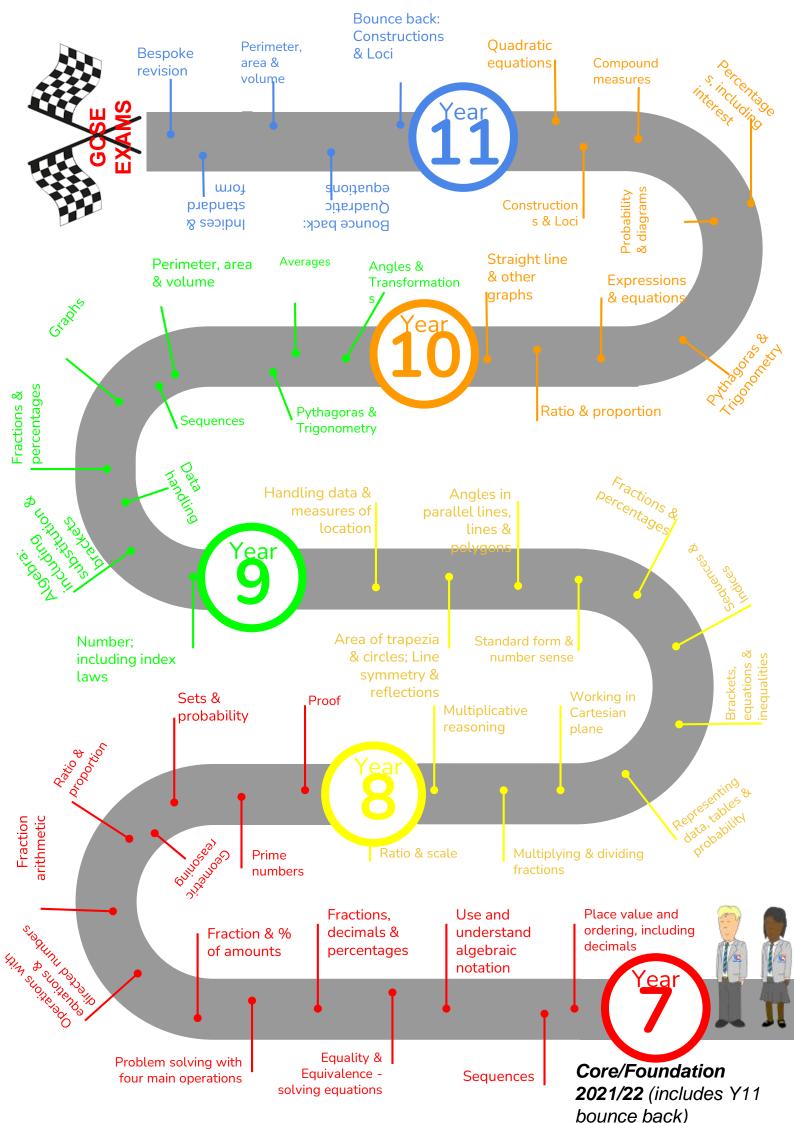


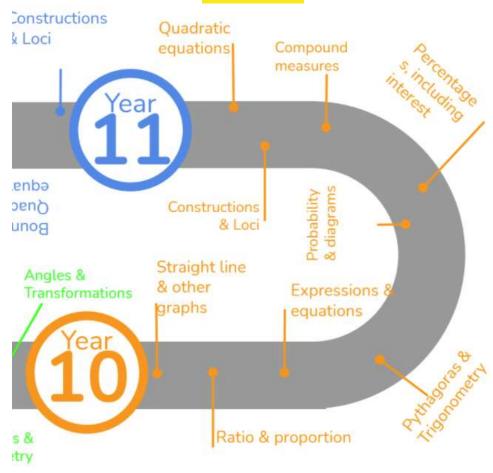
Year 10 Foundation Scheme of Learning

MODULE 2

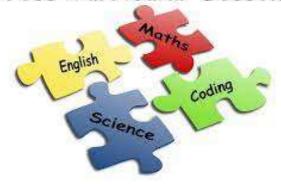




This is what your child will be taught as part of the GCSE foundation course in Year 10 in their MATHS lessons.







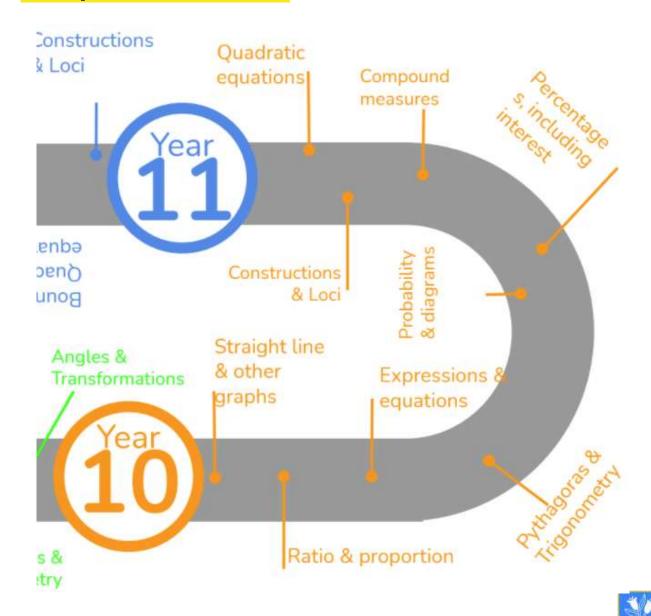




They will have also have specific lessons linked to other subjects and a diet of retrieval built into their lessons.

In Year 10 Module 2 your child will study the following topics:

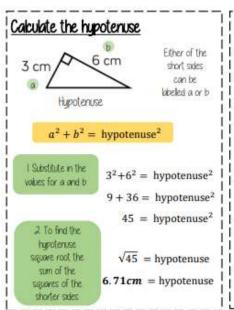
- Pythagoras and Trigonometry
- Probability and Diagrams
- Percentages including Interest
- Compound Measures

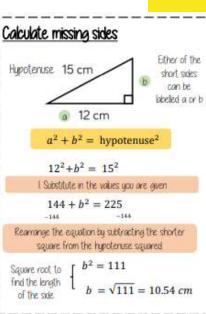


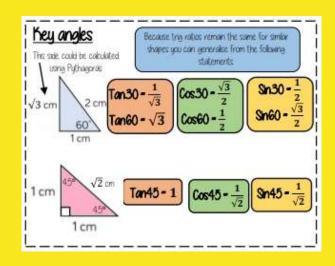
Pythagoras and Trigonometry

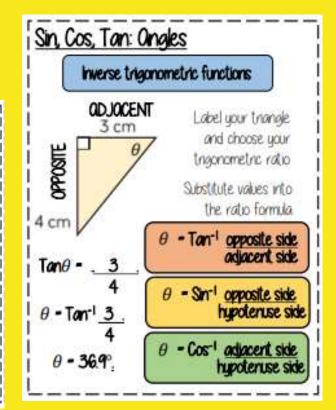
Topics covered in this unit include:

- Finding the hypotenuse
- Finding the shorter side
- Understanding and using SOH CAH TOA
- Recognising when to use each method
- Introducing exact trigonometric values









Keywords

Enlarge: to make a shape bigger (or smaller) by a given multiplier (scale factor)

Scale Factor the multiplier of enlargement.
Constant: a value that remains the same

Cosine ratio: the ratio of the length of the adjacent side to that of the hypotenuse. The sine of the

Sine ratio: the ratio of the length of the opposite side to that of the hypotenuse.

Tangent ratio: the ratio of the length of the opposite side to that of the adjacent side.

Inverse: function that has the apposite effect

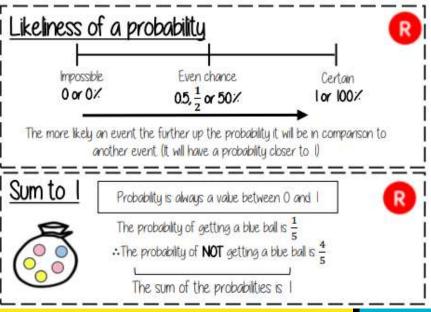
Hypoteruse: longest side of a right-angled triangle. It is the side opposite the right-angle

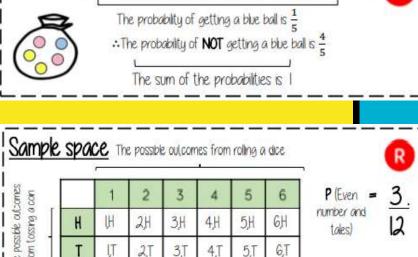


In this unit your child will study:

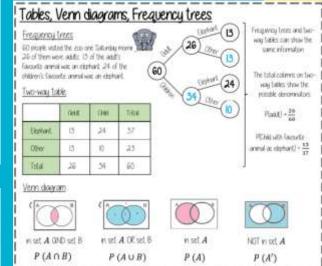
- Basic probability and the probability scale
- Experimental probability
- Sample space diagrams
- Frequency trees
- Venn diagrams
- Probability trees







Probability and Diagrams



Keywords

Event: one or more outcomes from an experiment

Outcome: the result of an experiment

Intersection: elements (parts) that are common to both sets

Union: the combination of elements in two sets.

Expected Value: the value / outcome that a prediction would suggest you will get

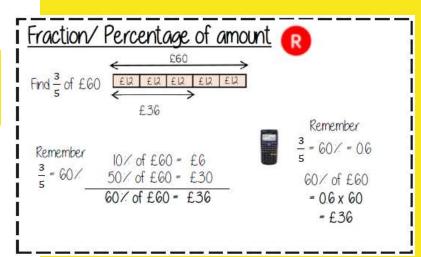
Universal Set: the set that has all the elements

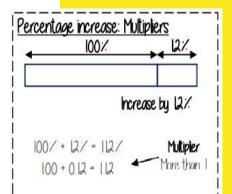
Systematic: ordering values or outcomes with a strategy and sequence **Product**: the answer when two or more values are multiplied together.

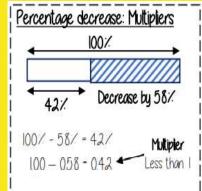
Percentages including Interest

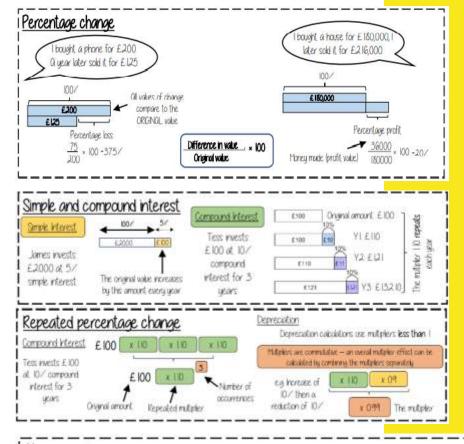
Topics covered in this unit include:

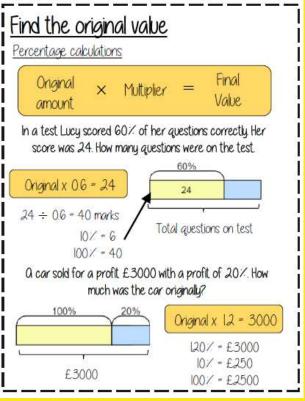
- Calculating percentages
- Calculating percentage increase and decrease
- Percentage change
- Reverse percentages
- Simple and Compound Interest











Keywords

Percent: parts per 100 - written using the / sumbol

Decimal a number in our base 10 number system. Numbers to the right of the decimal place are called decimals

Fraction: a fraction represents how many parts of a whole value you have

Equivalent: of equal value.

Reduce: to make smaller in value.

Growth: to increase/ to grow.

hteger: whole number, can be positive, negative or zero.

Invest: use money with the goal of it increasing in value over time (usually in a bank)



Compound Measures



In this unit your child will study:

- Speed, distance, time
- Density, mass, volume
- Force, pressure, area

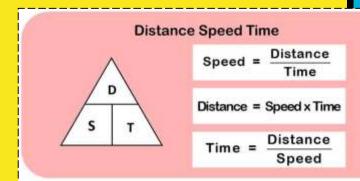
This is a cross-curricular topic with links to Science

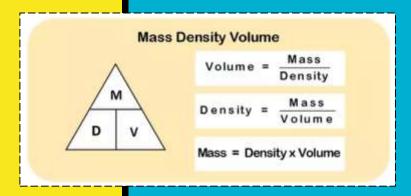
Cross Curricular Links

MATHS

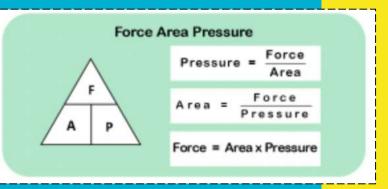


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Compound Measurement: A measure made up of two or more measurements (e.g. speed, pressure, density)



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