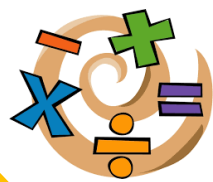
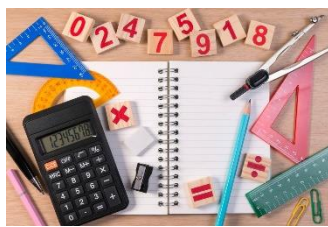




YEAR 11



St. Aldhelm's Academy

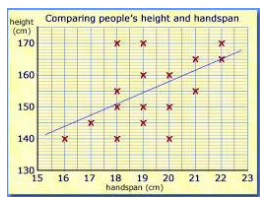
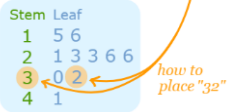


# End of year Exams (Three GCSE Papers)

## Frequency Tables

Value	Frequency
2	3, 5, 8, 4
3	8, 3, 8, 8, 5
6	8, 7, 4, 4, 5
5	8, 5, 5

15, 16, 21, 23, 23, 26, 26, 30, 32, 41



<b>Median</b> (Middle) The number which is in the middle or the middle value. 11 7 11 18 9 7 6 23 7 6 7 7 9 11 11 18 23 Median: 9	<b>Mode</b> (Most) The number that appears the most. 11 7 11 18 9 7 6 23 7 6 7 7 9 11 11 18 23 Mode: 7
<b>Mean</b> (Average) The total of the numbers divided by how many numbers there are. 11 7 11 18 9 7 6 23 7 11+7+11+18+9+7+6+23+7=99 99/9 = 11 Mean: 11	<b>Range</b> (Difference) The difference between the largest and the smallest number. 11 7 11 18 9 7 6 23 7 Large: 23 Small: 6 23 - 6 = 17 Range: 17

Solve problems involving proportion such as recipes and scale drawings.

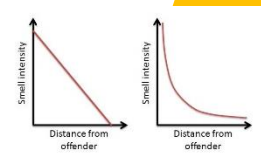
Read Values and calculate from frequency tables.

Produce, interpret and analyse stem and leaf diagrams

Draw frequency polygons

Scatter Graphs

Solve problems involving direct and indirect proportion



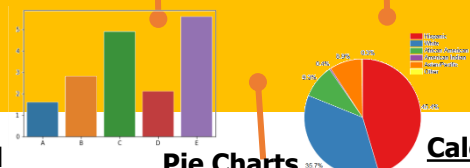
Speed, Distance, Time

Design and use two-way tables

Produce and interpret bar charts and dual bar charts

Pie Charts

Calculate mean, median, mode and range from a variety of data sets and tables



Write ratios in their simplest form

Find the gradient of a line from an equation

Plot and Draw graphs in the form y = mx + c

Sketch nets of 3D shapes and find the surface area.

Find the volume of 3D shapes



Find a part of a ratio when the other is known



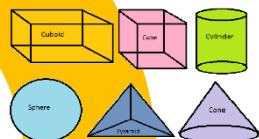
Divide a quantity into a ratio

Draw straight line graphs for real life situations

Find the gradient of a line from a graph

Plot and Draw Graphs x=a and y=a

Perimeter and area problems

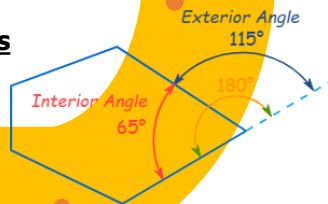
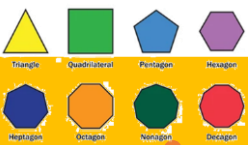


Identify parallel and perpendicular lines

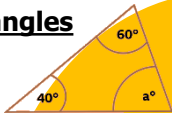
Find missing angles in angle problems

Recognise and name common polygons

Calculate interior and exterior angles



Draw and measure angles



Identify, acute, obtuse and reflex angles

Identify properties of triangles and quadrilaterals

Identify angles in parallel lines

Distinguish between regular and irregular polygons

Convert between metric units

Use the nth term to generate a sequence

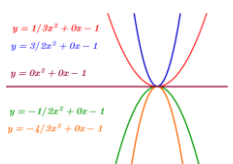
Recognise common sequences (odd, even, square, Fibonacci)

Solve Inequalities

Solve one and two step equations

Solve problems involving profit, loss, interest and tax.

Find a percentage of increase and decrease



Recognise and continue, geometric and quadratic sequences

Find the nth term of a sequence

Rearranging equations

Use Function Machines

Finding the original amount

Expand Brackets

Factorise algebraic expressions

Find equivalent fractions

Order and compare fractions

Add and subtract fractions and mixed numbers

Find a fraction of an amount



Distinguish between expressions, equations, formulae and identities

expression  
 $4x + 2$   
equation  
 $4x + 2 = 100$

Write expressions for real world situations

Substitute numbers into a formula

Write fractions in simplest form

Convert between improper fractions and Mixed numbers

Multiply and divide fractions

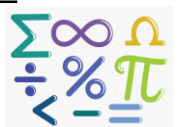
Compare and order Fractions, decimals and percentages

Write a number as a product of prime factors

Estimate Calculations

Rounding to decimal places and significant figures

YEAR 10



welcome

Collect Like Terms

Collect like terms  
 $4a + 5 + 2a - 3$   
 $= 6a + 2$

Find common factors and multiples

Write numbers in index notation and recognise powers.

Add, Subtract, multiply and Divide Decimals

Ordering Integers and Decimals

