

Year 9 Maths – What will I study and why?

Areas of Study

<i>Topic</i>	<i>What am I aiming to master</i>	<i>The Bigger Picture</i>
A1	CO-ordinates and linear graphs – from finding a co-ordinate to interpreting a graph Proportionality – using the relationship between variables to find missing information	In the real world, graphs are used to help people quickly understand and use information. Examples include graphs used in medicine and in business. Medical graphs are used to collect information about patients, such as graphs showing a 1 to 10 pain scale for patients after surgery
A2	Expanding and factorising – Further algebra Algebraic techniques – changing algebraic expressions to detail what you require	Factoring is a useful skill in real life. Common applications include: dividing something into equal pieces, exchanging money, comparing prices, understanding time and making calculations during travel
SP1	Constructions – using a ruler and compass to make accurate constructions Angles in polygons – finding angles in many sided shapes	One common example of perpendicular lines in real life is the point where two city roads intersect. When one road crosses another, the two streets join at right angles to each other and form a cross-type pattern
SP2	Linear equations and inequalities – finding missing information's Simultaneous equations – Finding two unknowns at one time	Many people use linear equations every day, Variable Costs. Imagine that you are taking a taxi while on vacation. ... Rates. Linear equations can be a useful tool for comparing rates of pay.
SU1	Pythagoras – using rules to find missing properties of triangles Transformations – How to move shapes around a co-ordinate grid	This application is frequently used in architecture, woodworking, or other physical construction projects. For instance, say you are building a sloped roof.
SU2	Probability – estimating the likeliness of an event occurring Distributions – Looking at how data can be affected by results	An example would be the probability of it raining today. Using factors such as wind, cloud coverage, etc., weather forecaster are able to predict the likeliness of it to rain and convert it into a percentage

How will I be assessed?

- You will have two mid unit assessments to check your understanding at key points in the learning cycle – These will be marked by your teacher and you will have the opportunity to improve
- You will have an end of unit assessment which will test your understanding of the skills and if you can apply them