

## Maths - Term 3 Year 9 - Equations of Lines

Year group 9	Subject: Equations of Lines
<b>Prior learning- linked to National curriculum</b>	Students will have been introduced into the fundamental basics of algebra in years 7 and 8. In year 7 links would have been made between sequences and linear functions, and how both can be represented graphically. This unit will provide further skills into plotting line graphs from equations.
<b>Rationale</b>	The initial sub unit of the term was previously at the beginning of the year, but was possibly seen as a hard starting point. Now being moved to term 3 provides an opportunity for classes to develop other essential Mathematical skills in terms 1 and 2 before moving onto some “pure” Mathematics. The last sub unit provides a nice link into the proportional relationship and how this can be applied to real life.
<b>Vocabulary:</b>	<b>Keywords</b> Linear, equation, solution(s), gradient, intercept, co-ordinates, proportion, conversion, axis, ratio, formula, inequality.
<b>Cultural Capital:</b>	A relevant topic for GCSE but also hugely important to the world of business. The unit provides one of the first opportunities for teachers to provide some real life relevance to algebra. The topic is applicable in the business world and financial/business management.
<b>Key assessments- name the assessments</b>	Mini Assessment for: <ul style="list-style-type: none"> <li>● Plotting linear graphs from equations.</li> <li>● Solving equations and inequalities.</li> <li>● Solving problems with ratio and proportion</li> </ul> In addition for this a Unit wrapper for this Term.
<b>What do children know/ can do now (EDSM)</b>	Students will have previously covered the algebraic topic of substitution as well as work on sequences which can be combined in plotting more complex graphs and solving multi step equations, and for students to have <b>mastered</b> this topic, they will need to be fluent across the three mini assessment topics.. Any gaps will be addressed as we go on and Further highlighted in the unit wrapper.