

## Term 2 Year 7 - Numeracy

<b>Year group 7</b>	<b>Subject: Addition, subtraction, multiplication, division and place value</b>
<b>Prior learning- linked to National curriculum</b>	Students would have taught elements of basic numeracy in primary school, but this unit seeks to extend upon these basic skills to provide all students to able to perform the 4 basic numeracy functions. Teachers will be flexible in their approach to ensure that students are either re enforcing techniques which work well to ensure mastery or they are adopting new methods which work better for them.
<b>Rationale</b>	Year 7 students by this term are now setted according to their ability and this will all teachers to stretch or support where appropriate. Higher ability students will learn how to perform the 4 basic numeracy functions wilth decimals, with multiplication and division of such being the stretch element. These are fundamental skills which students will take through to their GCSEs in year 11.
<b>Vocabulary:</b>	<b>Keywords</b> Sum, difference, product, quotient, decimal, integer.
<b>Cultural Capital:</b>	Students will strengthen their numeracy skills but will also learn the relevance of their skills, for example the addition and subtraction sub unit will review life skills such as reviewing bank statements or bills, or reviewing transport timetables. The development of numeracy skills will benefit all students for the Maths learning through and beyond year 7.
<b>Key assessments- name the assessments</b>	Mini Assessment for: <ul style="list-style-type: none"> <li>● Addition and Subtraction</li> <li>● Multiplication and Division</li> <li>● Place Value</li> </ul> In addition for this a Unit wrapper for this Term.
<b>What do children know/ can do now (EDSM)</b>	<b>Emerging Students will:</b> Perform basic addition and multiplication with integers and understand the basic concept of place value. <b>Developing students will:</b> Be able to perform basic subtraction and division with integers, and round numbers. <b>Secure students will:</b> Perform addition and multiplication with decimals, and confidently multiply and divide by powers of 10. <b>Mastered students will:</b> Know how to perform subtraction and division with decimals, and understand what standard form is.

What **amendments** are you going to make following evaluation of this module?

## TERM 2

### Unit 4 - Addition and subtractions

### Unit 5 - Multiplication and division

### Unit 6 - Place value and ordering decimals

Properties of addition and Subtraction	Properties of multiplication and division	Recognise the place value of any number in an integer up to one billion
Mental Strategies for addition and subtraction	Understand and use factors	Understand and write integers up to one billion in words and figures
Use formal methods for addition of integers	Understand and use multiples	Work out intervals on a number line
Use formal methods for addition of decimals	Multiply and divide integers and decimals by powers of 10	Position integers on a number line
Use formal methods for subtraction of integers	Multiply by 0.1 and 0.01	Round integers to the nearest power of ten
Use formal methods for subtraction of decimals	Convert metric units	Compare two numbers using =, ≠, <, >, ≤, ≥
Choosing appropriate methods for addition and subtraction	Use formal methods to multiply integers	Order a list of integers
Solve problems in the context of perimeter	Use formal methods to multiply decimals	Find the range of a set of numbers
Solve financial maths problems	Use formal methods to divide integers	Find the median of a set of numbers
Solve problems involving tables and timetables	Use formal methods to divide decimals	Understand place value for decimals

Solve problems with frequency trees	Understand and use order of operations	Position decimals on a number line
Solve problems with bar charts and line charts	Solve problems using the area of rectangles and parallelograms	Compare and order any number up to one billion
Add and subtract numbers in standard form	Solve problems using area of triangles	Round a number to 1 significant figure
	Solve problems using area of trapezia	Write 10, 100, 1000 etc. as powers of 10 (H)
	Solve problems using the mean	Write positive integers in the form $A \times 10^n$ (H)
	Explore multiplication and division in algebraic expressions	Investigate negative powers of ten (H)