



Year 7- Number Operations

Term 3

Mastery Maths

Stage	Description		
	Section A Prerequisites	Section B Number operations	Section C Application of number operations
Emerging	<ul style="list-style-type: none"> Can recall their multiplication tables. Can link their multiplication understanding to visual representations such as arrays. Can use the idea of area to aid with both multiplication and division. 	<ul style="list-style-type: none"> Can use place value counters and grids to represent decimal values up to two decimal places. 	<ul style="list-style-type: none"> Can understand percent as part of 100. Can represent percentages using pictures and bar modelling.
Developing	<ul style="list-style-type: none"> Can add and subtract integers and decimals (linking to place value and exchange). Can multiply using multiple representations such as arrays and repeat addition. Can divide using multiple representations such as area, repeat subtraction and inverse multiplication. Multiply and divide by powers of 10. Can recall factors and multiples, linking with multiplication and division. 	<ul style="list-style-type: none"> Can apply the commutative law $7 + 3 = 3 + 7$ Can apply associative law e.g. $16 + 28 + 12 = (16 + 28) + 12 = 16 + (28 + 12)$ Can use multiple strategies for working out addition & subtraction (e.g. $537 - 499$ it's easier to do $538 - 500$) 	<ul style="list-style-type: none"> Can identify metric units (including making some conversions). Can calculate the perimeter of a shape. Can find the area of rectangles, parallelograms and triangles.
Secure		<ul style="list-style-type: none"> Demonstrate an understanding multiplication/division equivalence e.g. $\div 18 = \div 6 \div 3$ Order of operations – link to commutative & associative & representations 	<ul style="list-style-type: none"> Can solve problems involving two way tables, frequency trees and bar charts. Can solve financial problems involving cost and bank statements
Excellence		<ul style="list-style-type: none"> Can multiply decimals by integers and by decimals Can divide decimals by integers. 	<ul style="list-style-type: none"> Can add and subtract number in standard form. Can find the mean from data, including more complex problems.