



Year 7- Place Value and Proportion		Term 2	Mastery Maths
Stage	Description		
	Section A Prerequisites	Section B Place Value	Section C Equality and Equivalence
Emerging	<ul style="list-style-type: none"> <li>Can multiply by 10, 100 and 1000</li> <li>Can divide by 10, 100 and 1000</li> <li>Can multiply two digit numbers by single digits.</li> <li>Can divide using manipulatives and other division methods.</li> </ul>	<ul style="list-style-type: none"> <li>Can order data in ascending and descending order.</li> <li>Can read information from a line graph.</li> <li>Can read information from a pie chart.</li> <li>Can calculate the mean from simple data collections.</li> </ul>	<ul style="list-style-type: none"> <li>Can find the area of a shape by counting squares.</li> <li>Can compare the areas of similar shapes</li> <li>Can find the area of a triangle</li> <li>Can find the area of a square and rectangle</li> </ul>
Developing	<ul style="list-style-type: none"> <li>Can break up an integer into hundreds, tens &amp; ones up to billion.</li> <li>Can compare numbers using inequality notation <math>&lt;</math> <math>&gt;</math>.</li> <li>Can multiply and divide by 10, 100 and 1000</li> </ul>	<ul style="list-style-type: none"> <li>Represent the place value of decimals with multiple representations.</li> <li>Can estimate numbers on number lines with harder intervals.</li> <li>Can order calculations in either ascending or descending order.</li> </ul>	<ul style="list-style-type: none"> <li>Can show equivalence between numbers, especially the concept of exchanging.</li> <li>Can show the relationship between fractions and decimals and represent on a number line.</li> </ul>
Secure		<ul style="list-style-type: none"> <li>Can find the three average and range from a set of integers.</li> <li>Can write numbers to a given number of decimal places or significant figures.</li> </ul>	<ul style="list-style-type: none"> <li>Can convert between fraction, decimals and percentages.</li> <li>Understand how to convert integers <math>&lt; 1</math> into fractions and percentages.</li> </ul>
Excellence		<ul style="list-style-type: none"> <li>Can solve complex problems involving powers of 10, including laws of indices.</li> <li>Can solve complex problems and justify answers involving averages and range.</li> </ul>	<ul style="list-style-type: none"> <li>Can fluently convert between fractions, decimals and percentages.</li> <li>Can justify complex problems involving some algebraic reasoning.</li> </ul>