

Class 6 (Y5) Multiplication & Division

Aspect	Key Concepts	Key Vocabulary	Skills	Practical Resources for Class Area	Practical Resources centrally stored
<i>Multiplication & Division</i>	<p>Identify multiples and factors, including finding all factor pairs</p> <p>Know and use the vocabulary of prime numbers(a number which has exactly 2 factors – 1 and itself: 1 is not a prime number as it has only 1 factor), prime factors(factors of a number which are also prime numbers) and composite (non-prime) numbers (a composite number has at least 3 factors)</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> <p>Recognise and use square numbers and cube numbers, and the notation for squared and cubed</p>	<p>multiple factor</p> <p>prime numbers</p> <p>prime factors</p> <p>composite numbers</p> <p>product</p> <p>square numbers</p> <p>cube numbers</p>		<p>Multiplication tables on display in class</p> <p>Individual multiplication grids</p> <p>Place value boards Digit cards Place value dice</p> <p>multi-link centicube</p>	

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<i>Mathematical Methods</i>	<p>Multiply numbers up to 4 digits by a one- or two-digit number</p> <p>Contracted method – short multiplication</p> <p>Long multiplication for 2-digit numbers</p> <p>Multiply and divide numbers mentally – drawing upon known facts</p> <p>Revise & use contracted method – short division ‘bus shelter’ – with remainders (remainders to be given as fractions, as decimals or by rounding – according to context e.g. $98 \div 4 = 24 \text{ r}2 = 24 \frac{1}{2} = 24.5$, rounded to 25</p>	<p>multiply divide multiplication division</p> <p>bus shelter remainder</p>			
<i>Problems</i>	<p>Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</p> <p>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</p>		Explaining how they have solved problem		