

Curriculum End Points	Subject: Mathematics		
Theme / Area Covered	Number 1		
	Age Related Targets – Year 7	Age Related Targets – Year 8	Age Related Targets – Year 9
Key Objectives / Learning Pathway Emerging	<p>Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.</p> <p>Use negative numbers in context and calculates intervals across zero</p> <p>Count forwards and backwards in steps of powers of 10 for any number up to 10,000,000</p> <p>Multiply and divide any number by 10,100 and 1000.</p>	<p>Multiply and divide by powers of ten (e.g. 100), including multiplying and dividing decimals by positive powers of ten.</p> <p>Identify factor pairs of numbers</p> <p>Find prime factors of numbers. List factors and multiples of a number.</p> <p>Find squares and cubes.</p>	<p>Explain the link between the power of ten and the shift in the digits. Express 10s as powers of ten e.g. $100 = 10^2$.</p> <p>Put large numbers into and out of standard form.</p> <p>Find prime factors.</p> <p>Write a number as a product of its prime factors.</p> <p>Use listing methods to find HCF and LCM. State and use the multiplicative and division indices rule, when bases are common.</p>
Key Objectives / Learning Pathway Developing	<p>Multiply and divide by powers of ten (e.g. 100), including multiplying and dividing decimals by positive powers of ten.</p> <p>Identify factor pairs of numbers.</p> <p>Find prime factors of numbers.</p> <p>List factors and multiples of a number.</p> <p>Find squares and cubes.</p>	<p>Explain the link between the power of ten and the shift in the digits. Express 10s as powers of ten e.g. $100 = 10^2$.</p> <p>Put large numbers into and out of standard form.</p> <p>Find prime factors.</p> <p>Write a number as a product of its prime factors.</p> <p>Use listing methods to find HCF and LCM. State and use the multiplicative and division indices rule, when bases are common.</p>	<p>Describe the relationship between negative indices and decimals with regards to powers of ten.</p> <p>Express place value in powers of ten.</p> <p>Put large and small numbers in standard form and do multiplication and division with them.</p> <p>Use prime decomposition to determine if a number is a square.</p> <p>Use prime factors to find HCF and LCM (Using Venn diagrams). Know exceptions to multiplicative and division indices rules.</p> <p>Use the indices rule for indices with brackets.</p>
Key Objectives / Learning Pathway Mastering	<p>Explain the link between the power of ten and the shift in the digits. Express 10s as powers of ten e.g. $100 = 10^2$.</p> <p>Put large numbers into and out of standard form.</p> <p>Find prime factors.</p>	<p>Describe the relationship between negative indices and decimals with regards to powers of ten.</p> <p>Express place value in powers of ten.</p> <p>Put large and small numbers in standard form and do multiplication and division with them.</p>	<p>Able to use standard form in context.</p> <p>Can use addition and subtraction with standard form.</p> <p>Use prime factor decomposition to solve problems, such as finding square or cube roots, or to ascertain divisibility or find other factors.</p> <p>Able to prove indices rules</p>

	<p>Write a number as a product of its prime factors.</p> <p>Use listing methods to find HCF and LCM. State and use the multiplicative and division indices rule, when bases are common.</p>	<p>Use prime decomposition to determine if a number is a square.</p> <p>Use prime factors to find HCF and LCM (Using Venn diagrams). Know exceptions to multiplicative and division indices rules.</p> <p>Use the indices rule for indices with brackets.</p>	
<p>Key Objectives / Learning Pathway Excelling</p>	<p>Describe the relationship between negative indices and decimals with regards to powers of ten.</p> <p>Express place value in powers of ten.</p> <p>Put large and small numbers in standard form and do multiplication and division with them.</p> <p>Use prime decomposition to determine if a number is a square.</p> <p>Use prime factors to find HCF and LCM. Know exceptions to multiplicative and division indices rules.</p> <p>Use the indices rule for indices with brackets.</p>	<p>Able to use standard form in context.</p> <p>Can use addition and subtraction with standard form.</p> <p>Use prime factor decomposition to solve problems, such as finding square or cube roots, or to ascertain divisibility or find other factors.</p> <p>Able to prove indices rules</p>	