


Subject	Year	Month	
Mathematics	10	September	
<b>Topic:</b>			
<b>Standard form and surds</b>			3 lessons
Content (Intent)			
<b>Prior Learning</b> Year 9 Standard form September		<b>Future Learning</b> Year 10 Pythagoras & trigonometry January Year 11 Rationalising denominators December <b>Year 12</b> Pure Chapter 1 Algebraic expressions	
<b>Objectives</b> <ul style="list-style-type: none"> <li>Convert large and small numbers into standard form and vice versa;</li> <li>Add and subtract, multiply and divide numbers in standard form, without a calculator</li> <li>Add and subtract, multiply and divide numbers in standard form, with a calculator and in context</li> <li>Recognise that <math>\sqrt{a} \times \sqrt{b} = \sqrt{ab}</math> and simplify surds (e.g. <math>\sqrt{12} = \sqrt{4} \times \sqrt{3} = 2\sqrt{3}</math>).</li> </ul>			
<b>Pedagogical notes (implementation)</b>		<b>How will understanding be assessed &amp; recorded (Impact)</b>	
Standard form is used in science and there are lots of cross-curricular opportunities. Students need to be provided with plenty of practice in using standard form with calculators.		<b>End of half term</b> Assessment in Oct <b>End of Year</b> Mocks in April	
		<b>How can parents help at home?</b>	
		<b>MathsWatch clips (Qualification GCSE)</b> 83 207a, 207b	
<b>Further reading/discussion</b>			
<b>Reading / Enrichment</b>	<b>Literacy</b>	<b>Numeracy Links</b>	<b>Careers Links</b> Engineering Computing Physicist