


Subject	Year	Month		
Mathematics	11	January		
Topic:				
Indices and standard form revision				2 lessons
Content (Intent)				
Prior Learning Year 10 Indices September		Future Learning		
Objectives				
<ul style="list-style-type: none"> • Use index laws to simplify and calculate the value of numerical expressions involving multiplication and division of integer powers, fractions and powers of a power; • Use numbers raised to the power zero, including the zero power of 10; • Convert large and small numbers into standard form and vice versa; • Add and subtract numbers in standard form; • Multiply and divide numbers in standard form; • Interpret a calculator display using standard form and know how to enter numbers in standard form. 				
Pedagogical notes (implementation)		How will understanding be assessed & recorded (Impact)		
<p>Negative fractional indices are not included at Foundation tier, but you may wish to extend the work to include these.</p> <p>Standard form is used in science and there are lots of cross curricular opportunities.</p> <p>Students need to be provided with plenty of practice in using standard form with calculators.</p>		End of half term no End of Year 2nd mocks in Feb & March		
		How can parents help at home? MathsWatch clips Qualification KS3: N25, N44, N45ab Qualification KS4: 29, 30, 82, 83, 131, 154		
Further reading/discussion				
Reading / Enrichment http://passyworldofmathematics.com/exponents-in-the-real-world/	Literacy	Numeracy Links	Careers Links Engineering Cryptologist Astronomer Computing Physicist	