



## Year 7 Maths assessment criteria – Module N5 – Order of Operations

	<b>Key Knowledge and Skills</b>
<b>Excellence</b>	<ul style="list-style-type: none"> <li>-Can evaluate more complicated calculations with multiple operators, brackets powers and roots</li> <li>-Can find multiple ways to use given numbers and operators to construct a calculation to give a single given value</li> </ul>
<b>Secure</b>	<ul style="list-style-type: none"> <li>-Can evaluate calculations with multiple operations, brackets and powers and roots</li> <li>-Can add brackets to a calculation with multiple operations and powers and roots to obtain a given value.</li> <li>- Can use given numbers and operators and brackets to construct a calculation that gives a given value</li> <li>-Can find missing numbers in calculations with multiple operations, brackets, powers and roots</li> <li>-Can identify the inverse of a calculation with 3 or more operators, brackets, powers and roots (Pre-Algebra)</li> </ul>
<b>Developing</b>	<ul style="list-style-type: none"> <li>-Can evaluate calculations with three or more operators</li> <li>-Can evaluate calculations with three or more operators and brackets</li> <li>-Can add brackets to a calculation with two or more operators of different priority to make a given number</li> <li>-Can use commutativity to evaluate a calculation with multiplication and addition, and multiplication and subtraction.</li> <li>-Can find missing numbers in calculations with two operators with or without brackets</li> <li>-Know that e.g <math>3 \times (4 + 6) \equiv 3 \times 4 + 3 \times 6</math> (Pre-algebra)</li> <li>-Know that e.g. <math>\frac{10+8}{2} \equiv \frac{10}{2} + \frac{8}{2}</math> (Pre-Fractions)</li> <li>-Know the difference between e.g <math>\frac{10+8}{2}</math> and <math>10 + \frac{8}{2}</math></li> <li>-Can identify inverse operations of a calculation with two operators of different priority</li> </ul>
<b>Foundation</b>	<ul style="list-style-type: none"> <li>-Know that Addition and Subtraction have the same priority</li> <li>-Know that multiplication and division have the same priority</li> <li>-Can evaluate calculations with two or more operators of the same priority</li> <li>-Can identify the first operation calculations with two operators with different priorities</li> <li>-Can evaluate calculations with two operators with different priorities</li> <li>- Can evaluate calculations with two operators with different priorities and brackets</li> </ul>



## Year 7 Maths assessment criteria – Module N6 – Directed Numbers

	<b>Key Knowledge and Skills</b>
<b>Excellence</b>	-Can solve problems involving negatives presented in a wide variety of formats
<b>Secure</b>	-Can perform multistep calculations involving two or more operations, brackets, powers and roots -Can find missing numbers in more complicated calculations to obtain a given value. -Can spot mistakes in a given calculation
<b>Developing</b>	-Can add a negative number (crossing zero) -Can subtract a negative number (crossing zero) -Can calculate powers of negative numbers -Can calculate roots of negative numbers
<b>Foundation</b>	-Can add a negative number (not crossing zero) -Can subtract a negative number (not crossing zero) -Can multiply two positive numbers -Can multiply two numbers (one positive one negative) -Can multiply two numbers (both negative) -Can divide two positive numbers -Can divide two numbers (one positive and one negative) -Can divide two numbers (both negative)