

## Curriculum Overview – Autumn Term 2022-2023

**Subject:** Mathematics

**Year group:** 8, Mathematics progress international 11-14

<b>Term 1 – August to November 2022</b>			
<b>Unit number</b>	<b>Unit name</b>	<b>Key learning aspects (knowledge, understanding, skills)</b>	<b>Key assessment opportunities</b>
1	Number	Working with Fractions: <ul style="list-style-type: none"> <li>• Calculating with negative integers;</li> <li>• Prime factor decomposition;</li> <li>• Using indices</li> <li>• Priority of operations</li> </ul>	<ul style="list-style-type: none"> <li>• Regular Homework</li> <li>• Observations of the standard of written solutions</li> <li>• Oral responses in class</li> </ul>
2	Equations and formulae	<ul style="list-style-type: none"> <li>• Solving one step equations</li> <li>• Solving two step equations</li> <li>• More complex equations</li> <li>• Working with formulae</li> </ul>	<ul style="list-style-type: none"> <li>• Regular Homework</li> <li>• Observations of the standard of written solutions</li> <li>• Oral responses in class</li> </ul>
3	Working with powers	<ul style="list-style-type: none"> <li>• Simplifying expressions</li> <li>• More simplifying expressions</li> <li>• Factorising expressions</li> <li>• Expanding and factorising expressions</li> <li>• Substituting and solving</li> </ul>	<ul style="list-style-type: none"> <li>• Regular Homework</li> <li>• Observations of the standard of written solutions</li> <li>• Oral responses in class</li> <li>• End of unit assessment</li> </ul>

Unit number	Unit name	Key learning aspects (knowledge, understanding, skills)	Key assessment opportunities
4	2D shapes and 3D solids	<ul style="list-style-type: none"> <li>• Area of triangles, parallelograms and trapeziums.</li> <li>• Area of compound Shapes</li> <li>• Properties of 3D solid</li> <li>• Surface area</li> <li>• Volume</li> </ul>	<ul style="list-style-type: none"> <li>• Regular Homework</li> <li>• Observations of the standard of written solutions</li> <li>• Oral responses in class</li> </ul>