

Curriculum Overview – Autumn Term 2022-2023

Subject: Mathematics

Year group: 8 , Mathematics progress international 11-14

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

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"> • Area of triangles, parallelograms and trapeziums. • Area of compound Shapes • Properties of 3D solid • Surface area • Volume 	<ul style="list-style-type: none"> • Regular Homework • Observations of the standard of written solutions • Oral responses in class