

Please use this Route Through to learn more about what students are learning in lessons, and how they can extend their learning at home. Please contact the Head of Department or Director of Year for more information.

Subject	What are students learning in lessons?	What could students do to extend their learning and develop their character?
Autumn Term 1	Decimal Manipulation. Estimation and Error Intervals. HCF and LCM using Venn Diagrams. Related Calculations. Calculations with Fractions.	Be curious: research how prime numbers are used in cybersecurity and create an infographic.
Autumn Term 2	Algebraic Manipulation. Laws of Indices. Standard Form. Expanding and Factorising Double Brackets.	Be curious: research uses of standard form in science and create an infographic.
Spring Term 1	Forming expressions. Substitution. Direct and inverse proportion. Probability 1.	Be resilient: make a formula sheet for all the formulae you use in Science and Maths.
Spring Term 2	Solving Equations 2. Inequalities. Sequences.	Be curious: research the Golden Spiral. Find examples of it in nature in your local area and take pictures then create a photo collage.
Summer Term 1	Pythagoras Theorem. Interior and Exterior Angles in Polygons. Vectors. Transformations.	Be curious: create your own tessellating pattern and explain how it works mathematically.
Summer Term 2	Plans and Elevations. Arcs and Sectors. Surface area.	Be curious: research how plans and elevations are used in architecture and create a page of labelled examples.

	Assessment	Home Learning
How should I plan my time?	Students think hard and answer lots of questions every lesson. Students practice and get feedback on their work. Exam: Spring 1 and Summer 2	Character tasks and Sparx Maths to continue the joy of learning beyond the classroom.