Year 7	Curriculum Content Mathematics	Home Learning and Wider Study
	All pupils will follow one of three schemes of work depending on their individual needs. A topic will be taught for 4 weeks, tested and then 2 weeks of therapy will commence in order to ensure that all topics have been thoroughly learnt by all students. All pupils complete Numeracy Ninjas at the start of each lesson to aid with basic skills and multiplication. Once a new belt target has been reached a certificate will be awarded.	
Autumn 1	**Analysing data** (calculating averages, collecting data and completing frequency tables) *Real life links; data handling cycle, completing a surveys, question* **Calculations** (multiplying, dividing, addition and subtraction of decimals, negative numbers and use of a calculator) *Real life links; shopping, weather, problem solving*	May include; Mathswatch Corbett maths Hegarty maths A worksheet as decided by the class teacher Please check my homework
Autumn2	**Algebra: brackets, formula, simplifying** (simplifying terms, expanding and factorising expressions, expanding polynomials, construct and solve equations) **Graphs** (display data on a variety of graphs; calculate speed, distance and time.) **Decimals and fractions** (applying all operations to decimals and fractions, including real life situations and problem solving)	
Spring 1	**Factors and multiples** (calculating the highest common factor, lowest common multiple and the use of Venn diagrams) **Decimals and measures (**calculate perimeters, areas and volumes using the correct formulae, convert between metric units) *Real life links to decorating and money* **Angles and lines** (read and plot coordinates, calculate missing angles on a 2d plane including parallel lines) **Probability** (write probabilities as fractions, recognise the difference between experimental and theoretical probabilities and conduct experiments recording the data, complete a frequency tree and tree diagrams) *Real life links; probabilities in the real world, ability to display data and conduct experiments*	
Spring 2	**Ratio** (simplify, sharing amounts and problem solving) **Angles** (calculating missing angles in 2d shapes)	
Summer 1	**Fractions, decimals and percentages** (applying all operations, reverse percentages, increasing and decreasing percentages and compound interest) *Real life links; interest rates and loans, APR* **Transformations** (enlarge, translate, rotate and reflect shapes on a	

	Cartesian plane, draw shapes using 2D isometric paper)	
Summer 2	**Therapy and enrichment**	

Additional subject specific guidance and resources:

All content is linked to the Edexcel scheme of work, with assessment points every four weeks, followed by two weeks of therapy.