Subject	Year 8 Threshold Concepts – Autumn Term	How to support students' learning
	Algebra - Simplifying expressions - Factorising (single brackets) - Rearranging formulae - Solving linear equations - Solving equations with unknowns on both sides - Solving with fractions **Sequences** - Using term to term rules - Special sequences (Fibonacci, square numbers, triangle numbers) - Finding the nth term	- Encourage your child to show all their working out when solving equations. If they have homework online then encourage them to write down all their working out in their exercise books. - Use www.mymaths.co.uk for support if needed. Teachers will have provided your child with a login and password.
	Angles - Properties of 2D shapes - Angle rules - Angles in parallel lines - Angles in polygons	- Encourage your child to use the correct equipment when working with lines and angles (a pencil, ruler and protractor) - Use www.mymaths.co.uk for support if needed. Teachers will have provided your child with a login and password.
	Area, Perimeter and Volume - Area and perimeter of rectangles, triangles, trapeziums and compound shapes - Area and circumference of circles. - Composite shapes including circles - Volume of cubes, cuboids and prisms	Encourage your child to memorise the formulae for areas of different shapes. These will be in their exercise books

	Negative Numbers • Calculate with negative Numbers **Number Skills** • Decimal arithmetic • HCF & LCM • Negative numbers • Fractions and percentages of amounts **Data** • Averages • Averages from frequency tables • Scatter Graphs	 • Encourage your child to use mymaths to practise their number skills • Encourage your child to continue practising their times tables up to 15 and their long multiplication and division skills. • Encourage your child to think about why we use averages and where they can see them being used outside school. • Encourage them to learn the difference between Median, Mean and Mode averages.