Curriculum Overview for Mathematics - Year 7

When?	What?	Why?	How?	Support
Autumn Term **Topics may not be taught in this order** due to classes having more than one teacher. However, all topics will be covered in each term.	• Sequences • Understanding and using Algebraic Notation • Equality and Equivalence • Understanding and ordering integers and decimals • Fraction, Decimal and percentage Equivalence	To introduce new content that pupils may not have seen in Primary school. To remind, embed and extend knowledge introduced in Primary School. So pupils can make links between topics and concepts. To engage students with objects around them and understand their properties. To encourage students to visualise and recognise patterns. To highlight the mathematics all around them and question it. To challenge pupils thinking. To support the action of applying skills to abstract questions.	The process will develop from visual understandings to more efficient methods. Ideas will be represented firstly using objects/ visualising. This will develop into concepts and problem solving. Students will be using different equipment and methods to support their development such counters, shapes, diagrams. Students will learn to use mathematical equipment such as protractors, compasses, tracing paper, calculators, measuring tools for length and weight. Teaching and learning may be through a variety of methods, some of which include open-ended problems, card activities, group tasks and ICT. Concepts will be developed through visual representation, leading into real life scenarios.	**Learning from Home Document** This can be found in each student's Google Classroom. This has a list of every objective the students will cover over the year. With each objective is a: • Video tutorial • Worksheet • Answers Students can use this if they are **absent from school or to consolidate their learning** in lesson. **MyMaths** - www.mymaths.co.uk Log in details are in all Mathematics classrooms. Pupils have their own second login which they can email their teacher if they have forgotten. Using the second login will let their teacher see what they have done. Here students will find support material for topics and online worksheets that check their answers once complete. **Extra Support** At home, encourage your children to talk about what they have learnt. Help connect it to real life. Practice times tables. Encourage the use of the learning from home document. Student can also access 'The Vault' with is the maths tile on RM Unify.
Spring Term	• Solving problems with addition and subtraction • Solving problems with multiplication and division • Fractions and percentages of amounts • Operations and equations with directed number • Additional and subtraction of fractions			
Summer Term	• Construction measuring and using geometric notation • Developing geometric reasoning • Developing number sense • Sets and probability • Prime numbers and proof			