Subject area: Year 7 Mathematics (Stage 7)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Numbers and the Number System

Calculating | Checking, Approximating and Estimating

Counting and Comparing

Visualising and Constructing

Investigating Properties of Shapes | Algebraic Proficiency:tinkering

Exploring Fractions, Decimals and Percentages

Proportional Reasoning

Pattern Sniffing

Measuring Space | Investigating Angles

Calculating Fractions, Decimals and Percentages | Solving Equations And Inequalities

Calculating Space

Mathematical Movement | Presentation of Data

Measuring Data

Revision of key concepts as identified from assessments |
| Assessment | 2 BAM Tests | 2 BAM Tests | 4 BAM Tests | 2 BAM Tests | 3 BAM Tests | Full assessment (2 exam papers) to cover all topics. |
| H/W | 45 – 60 minute homework per week | 45 – 60 minute homework per week | 45 – 60 minute homework per week | 45 – 60 minute homework per week | 45 – 60 minute homework per week | 45 – 60 minute homework per week |

Building on prior learning	**Key points for the year will include:**
• **Use positive integer powers and associated real roots**
• **Apply the four operations with decimal numbers**
• **Write a quantity as a fraction or percentage of another**
• **Use multiplicative reasoning to interpret percentage change**
• **Add, subtract, multiply and divide with fractions and mixed numbers**
• **Check calculations using approximation, estimation or inverse operations**
• **Simplify and manipulate expressions by collecting like terms**
• **Simplify and manipulate expressions by multiplying a single term over a bracket**
• **Substitute numbers into formulae**
• **Solve linear equations in one unknown**
• **Understand and use lines parallel to the axes, y = x and y = -x**
• **Calculate surface area of cubes and cuboids**
• **Understand and use geometric notation for labelling angles, lengths, equal lengths and parallel lines**
Enrichment within the Curriculum	**National Mathematics Challenge for students who show very good problem solving skills.**
Extracurricular opportunities	**Lunchtime support offered where students require extra help.**
Positive impacting on personal development (SMSC)	**In Maths lessons students are always encouraged to delve deeper into their understanding of Mathematics and how it relates to the world around them.**
Problem solving skills and teamwork are fundamental to Mathematics, through creative thinking, discussion, explaining and presenting ideas. Students are always encouraged to develop their Mathematical reasoning skills, communicating with others and explaining concepts to each other. Self and peer reviewing are very important to enable students to have an accurate grasp of where they are and how they need to improve.
Preparing for the next stage of education	**Development of topics in the areas of Number, Ratio and Proportion, Algebra, Geometry and Statistics.**

Ways to support your child's learning	Check student planner / SPACE for Maths homework and support them with this. Access to commercial websites, have many resources and videos for you to help support your child's learning and revision for assessments. Numeracy can be developed adding totals during a supermarket shop, working with percentages in shop sales etc. **Useful Websites:** **Corbettmaths-** www.corbettmaths.com **Mymaths-** https://www.mymaths.co.uk/ **BBC Bitesize-** https://www.bbc.co.uk/bitesize/examspecs/z9p3mnb **Mathsgenie-** https://www.mathsgenie.co.uk/gcse.html **Mathsbot-** https://mathsbot.com/ **Maths Made Easy-** https://mathsmadeeasy.co.uk/ **On Maths-** https://www.onmaths.com/ **Exam Solutions-** https://www.examsolutions.net/gcse-maths/ **Study Maths-** https://studymaths.co.uk/