Year 9, 10 & 11 Overview

	Term	KS2 Overview	KS3 Overview
AULUMIN LEKM	HT1	 Number and Place Value Students will begin this unit by developing their counting skills. This includes counting forwards and backwards in different step and for some students also includes considering negative numbers. In this unit students will develop their understanding of place value and use this to compare and order a range of numbers at different levels. Some students will also consider how we can round numbers to different degrees of accuracy. Time- Telling the time and Time keeping are essential skills to support everyday life. During this unit we will develop student's ability to tell the time in both 12 and 24hour clock format. We will also consider using timetables and planning journey with time constraints. 	Number- Calculation Learners begin this unit by considering place value including how we can round and order different type of numbers They then move on to the four operations and will be challenged to apply these skills at different levels, including with decimals. Students will also consider the correct order for multi-step calculations. Ensuring learners are fluent at these skills underpins many of the mathematical content which is to be taught. As such, these skills will continue to be developed through mental math lessons each week.
	HT2	Addition and Subtraction- Addition and subtraction are two of the four fundamental maths operations. And being able to add and subtract numbers confidently plays a key role in maths education. Understanding the importance of these operations, we spend time developing pupils understanding and abilities at all levels, including using both written and mental mathematics methods. Manipulative and pictorial representations will be used where appropriate. Data Handling - Students will be encouraged to continue to used their number skills whilst considering how we can interpret and represent data.	Geometric Reasoning- Angles Learners use a protractor to draw and measure angles. They then consider how to calculate missing angles using angle facts. Algebraic Thinking – Manipulation and Sequences Learners are introduced to algebraic notation and consider how to simplify and manipulate expressions. They then consider sequences and using the nth term to describe and generate sequences.

TERM	HT3	 Multiplication and Division- The other two fundamental operations will be covered in depth here. A range of activities and real-life applications with be used to develop pupils understanding and abilities at all levels, including using both written and mental mathematics methods. Manipulative and pictorial representations will be used where appropriate. Fractions and Decimals- Firstly students will consider how to manipulate fractions including considering equivalencies with decimals and percentages. This will be taught using a range of activities and real-life applications. Manipulative and pictorial representations will support learning where appropriate. Students will then consider how to calculate with fractions and decimals at different levels, with a focus on calculations with Money. 	Number-Fractions Learners consider how to manipulate fractions including discovering equivalent fractions, writing fractions in their simplest terms and changing between mixed numbers into improper fractions. They will then look at how to perform the four operations with fractions including finding a fraction of an amount.
SPRING TE	HT4	 Number and Place Value Students will begin this unit by developing their counting skills. This includes counting forwards and backwards in different step and for some students also includes considering negative numbers. In this unit students will develop their understanding of place value and use this to compare and order a range of numbers at different levels. Some students will also consider how we can round numbers to different degrees of accuracy. Time- Telling the time and Time keeping are essential skills to support everyday life. During this unit we will develop student's ability to tell the time in both 12 and 24hour clock format. We will also consider using timetables and planning journey with time constraints. 	 Ratio and Proportional Reasoning Learners will investigate unequal sharing using ratios and will consider how we calculate best value for money Geometric Reasoning Learners will read and plot coordinates in all four quadrants and consider how this skill can be used to find a location on a map from given coordinates. Learners will also investigate how shapes can be transformed using reflections, rotations and translations.

SUMMER TERM	HT5	 Addition and Subtraction- Addition and subtraction are two of the four fundamental maths operations. And being able to add and subtract numbers confidently plays a key role in maths education. Understanding the importance of these operations, we spend time developing pupils understanding and abilities at all levels, including using both written and mental mathematics methods. Manipulative and pictorial representations will be used where appropriate. Data Handling - Students will be encouraged to continue to used their number skills whilst considering how we can interpret and represent data. 	 Number -Percentages Learners will consider simple FDP conversions and how to convert between any FDP. They will then consider both calculator and non- calculator methods for calculating percentages of amounts. Geometric Reasoning – Area, Perimeter and Volume Learners will consider the area, perimeter and volume of simple shapes and consider problems with real life applications. Some learners will be extended to consider the area and circumference of circles
	HT6	 Multiplication and Division- The other two fundamental operations will be covered in depth here. A range of activities and real-life applications with be used to develop pupils understanding and abilities at all levels, including using both written and mental mathematics methods. Manipulative and pictorial representations will be used where appropriate. Fractions and Decimals- Firstly students will consider how to manipulate fractions including considering equivalencies with decimals and percentages. This will be taught using a range of activities and real-life applications. Manipulative and pictorial representations will support learning where appropriate. Students will then consider how to calculate with fractions and decimals at different levels, with a focus on calculations with Money. 	Statistics Learners will consider how we represent data using a range of different chart and graphs. They will then consider the different methods for calculate averages and how we can compare sets of data.