

## Year 7 Autumn Term Maths Curriculum

Students in Year 7 study different content dependent upon their class. The classes will spend approximately two weeks studying each topic.

Miss Joseph, Mr Storey Scott	
Place value	Students look at reading, writing and interpreting the size of numbers by developing a more detailed understanding of place value. They then look at representing numbers on number lines.
Addition subtraction and the bar model	After consolidating number bonds students are shown how the bar model can be used for addition and subtraction. They then further practice column addition and subtraction methods.
Times tables and multiplication	In this block of work students spend some time practising their times tables and using them to solve associated problems. They then look at developing a written method to multiply two and three digit numbers
The fraction wall	Students firstly look at different representations of fractions before looking at the fraction rule. This is used to find equivalent fractions and to compare the sizes of different fractions.
Multiplying, dividing and rounding	Building upon earlier work on place value students look at how to multiply and divide numbers by 10, 100 or 1000. They then use understanding of number lines to round numbers to the nearest 10, 100 and 1000.
Negative numbers	Real life examples of negative numbers are used to build understanding of numbers less than zero. Students then use number lines to build upon this and solve problems involving negatives

Mr McClusky, Miss Robinson, Mr Ahluwalia, Mr Bees/Mr McClusky	
Commutative and associative relationships	Students are introduced to the commutative and associative laws and their importance in addition and subtraction. Equivalent sums are found and represented using the bar model.
Multiples, factors and primes	Previous understanding of factors, multiples and primes is consolidated before students are shown how prime factors and Venn diagrams can be used to find LCMs and HCFs.
Multiplication and division	Understanding of written methods for multiplication and division is secured with special attention paid to how remainders can be written and interpreted.
Fractions	Techniques for comparing fractions using both common numerators and denominators are studied before students look at fraction's association with division.
Negative numbers	Previous understanding of negative numbers is consolidated with students looking at calculating differences and how to perform operations with combinations of positive and negative numbers.
Decimals and rounding	After looking at where decimals are positioned on number lines students study how to round numbers to decimal places and the conversion between fractions and decimals.

After completing each topic students complete an assessed homework task which is recorded in the front of their yellow assessment books.

Students will also sit short two short tests this term. These are provisionally planned in the weeks beginning 18<sup>th</sup> October and 13<sup>th</sup> December. These tests feature 15 marks of questions on each topic they have studied in the half term. Students record their results of all tests in the back of their yellow assessment books.

At the end of this term students in classes in the right-hand column will be set. They will then spend the remainder of the year studying objectives which will challenge their level of mathematical ability.