Year 8 Autumn Term Maths Curriculum

Students in Year 8 study different content dependent upon their class. The classes will spend approximately two weeks studying each topic.

Mr Bees, Mr Ahluwalia/Mr Bullock		
Commutative	Students are introduced to the	
and	commutative and associative laws and	
associative	their importance in addition and	
relationships	subtraction. Equivalent sums are found	
	and represented using the bar model.	
Multiples,	Previous understanding of factors,	
factors and	multiples and primes is consolidated	
primes	before students are shown how prime	
	factors and Venn diagrams can be used to	
	find LCMs and HCFs.	
Multiplication	Understanding of written methods for	
and division	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	Previous understanding of negative	
numbers	numbers is consolidated with students	
	looking at calculating differences and how	
	to perform operations with combinations	
	of positive and negative numbers.	
Decimals and	After looking at where decimals are	
rounding	positioned on number lines students study	
	how to round numbers to decimal places	
	and the conversion between fractions and	
	decimals.	

Mrs Joseph, Mr Bullock/Miss Robinson		
Mental	Students are given opportunity to	
methods	develop their number sense and develop	
for	mental strategies for problems involving	
calculations	addition, subtraction, multiplication,	
	division, decimals and fractions.	
Powers and	Understanding of squares and cubes is	
order of	built upon with students looking at other	
operation	powers. Then after revisiting written	
	methods for multiplication and division,	
	order of operations is then considered.	
Directed	Building upon previous work on negative	
numbers	numbers, students look at using number	
	lines to solve problems and how to	
	perform operations with combinations	
	of positive and negative numbers.	
Fractions,	Students continue to build fluency with	
decimals	converting between fractions, decimals	
and	and percentages before looking at	
percentages	problems involving percentages and	
	fractions of amounts.	
Place value	Students look at at where decimals are	
	positioned on number lines, how to	
	round to decimal places and how to	
	solve multiplication and division	
	problems involving large numbers.	
Maths and	Scenarios involving bills, bank	
money	statements, VAT, simple interest, wages	
	and unit prices are looked at by students	
	making use of various computational	
	skills.	

N	1r Storey-Scott, Mr McClusky
Rounding and	After revisiting the skill of rounding,
approximation	students are introduced to how to round
	both small and large numbers to
	significant figures and how this skill can
	be used to approximate calculations.
Formulae	Students write und use a variety of
	formulae in context before looking at the
	technique of changing the subject of a
	formula. The formal method of trial and
	improvement is also introduced.
Ratio and	Understanding of ratio is built upon with
proportion	students linking this to proportion
	problems. Direct proportion problems
	are then studied with 'best value'
	problems being a focus.
Percentage	Students look at how multipliers can be
change	used to increase or decrease a quantity
	by a percentage. This skill is then used to
	solve compound percentage problems
	and calculate percentage change.
Straight line	Using an investigational approach,
graphs	students look at how linear graphs are
	linked to equations in the form of
	y = mx + c. They also look at how to
	calculate gradients of line segments.
Maps,	Students look at how to interpret scales
bearings,	on maps and use bearings. They then
constructions	look at the various construction
and loci	techniques, before using these to solve
	loci problems.

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 18th October and 13th 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.