AUTUMN TERM DISCOVERING MATHS 7C 2021-22

Rights Respecting Schools (RRS) in Maths

In order to support and develop RRS in Maths at Clyst Vale Community College all teachers in the Maths Department will make sure that the following happens in every Maths lesson:

Every child is taught maths without discrimination, whatever their ethnicity, gender, religion, language or ability. (Article 2- non- discrimination) Every child's best interests are top priority in every Maths lesson (Article 3-best interests of the child)

In all Maths lessons every child is given the right to express their views and ideas about a particular area of work and these views and ideas are considered, taken seriously and responded to by both other students and teachers. (Article 12-respect for the views of the child)

In all Maths lessons every child is free to express their thoughts and opinions about a particular area of work. Every child is given access to all information that is required (Article 13-freedom of expression)

Discipline in the Maths classroom is consistent and respects every child's dignity and their right. Every child in the classroom has the right to an education (Article 28-right to education)

Every child's mathematical ability and talent will be developed to the full. They will be encouraged to show their peers and teachers the respect that they deserve (Article 29-goals of education)

Differentiation in Maths Lessons

Differentiation is about tailoring lessons for students with individual needs. We must change the content delivery or methods of learning to ensure that every child learns in a way that is suitable for them. When done right differentiation in teaching challenges every student at an appropriate level. It allows the student to grow and succeed in a way that is fair to them. In Maths lessons we try to incorporate the following in all lessons:

Maths teachers target the majority and differentiate around.

Maths teachers keep it short and simple (KISS).

Maths teachers know their students and are clear about what they want them to achieve.

We use support staff wisely.

Maths teachers are flexible and they use a range of strategies-if it doesn't work then we stop!

We access the students' learning using a variety of methods: formative assessment, questioning, no hands up, quizzes, think pair share, open ended tasks, tiered resources...and many more

Every Maths classroom is managed to create a safe and supportive environment.

Maths teachers share their own strengths and weaknesses.

Thought provoking questions are posed to encourage students to think for themselves and become more independent learners.

MON 13TH SEPT

KERBOODLE Book 1C

	Chapter 1 Posit	ive Real Numbers		 Chapter 1 introduction video Chapter 1 online skills test Chapter 1 end-of-chapter test and mark scheme Workbook 1C Chapter 1 Graded Question Bank 1, Chapter 1 Fully-worked solutions: Chapter 1 in Workbook 1C, and Graded Question Bank 1 	Pages
Autumn term / Week 1	1.1 Place Values and Rounding Integers	 Recognise the place values of an integer Round a number to the nearest 10, 100, 1000 	DF1, 2, 5, 7 RM1, 5 SP1-4 N1, 2, 12, 13, 16		6-8
Autur	1.2 Addition	 Add two positive integers, using: column method laws of addition mental addition 	DF2, 5, 7 RM1, 5 SP1-4 N4, 12	Try It! video 43	9-11
	1.3 Subtraction	 Subtract two positive integers, using: column method mental subtraction Relate addition and subtraction 	DF2, 5, 7 RM1, 5 SP1-4 N2, 4, 6, 12		12-15

MON 20th SEPT

MON 27TH SEPT

Autumn term / Week 3	1.5 Division	 Divide two positive integers, using: long division and short division methods mental division Relate multiplication and division 	DF2, 7 RM1, 5 SP1-4 N4, 6, 12	Try It! video 18	Pages 20-23
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MON 4TH OCT

n term / sk 4	1.6 Index Notation, Square Roots and Cube Roots	 Understand the meaning of square, cube, square root and cube root of a number Understand index notation 	DF1, 2, 7 RM1, 5 SP1-4 N2, 7, 12, 15	Try It! videos 21, 23	Pages 24-27
Autumn t Week	1.7 Order of Operations and Using a Calculator	 Apply the order of operations in calculations Use calculators to apply operations 	DF2, 7 RM1, 5, 6 SP1-4 N4, 5, 12, 15		28-30

MON 11TH OCT

Autumn term /	Multiples	 Identify multiples and factors of numbers Apply the above concepts to solve daily life problems 	DF2, 7 RM1, 5 SP1–4 N3, 12	Try It! videos 29, 32	Pages 31-33
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MON 18TH OCT

Autumn term / Week 6	Chapter 2 Negative			 Chapter 2 introduction video Chapter 2 online skills test Chapter 2 end-of-chapter test and mark scheme Workbook 1C Chapter 2 Graded Question Bank 1, Chapter 2 Fully-worked solutions: Chapter 2 in Workbook 1C, and Graded Question Bank 1 	Pages
Autur W	2.1 Negative Numbers and the Number Line	 Recognise the use of negative numbers in the real world Represent numbers on a number line 	DF2, 5, 7 RM1, 5 SP1-4 N2, 12	R Try It! video 1	38-41
	2.2 Addition and Subtraction of Integers	• Identify integers and perform addition and subtraction on them	DF2, 5, 7 RM1, 5 SP1-4 N4, 12	Try It! videos 5, 7	42-47

SAT 23RD OCT-SUN 31ST OCT HALF TERM

MON 1st NOV

Autumn term / Week 7	2.3 Multiplication, Division and Combined Operations of Integers	 Identify integers and perform multiplication and division on them Combine operations of integers 	DF2, 7 RM1, 5, 6 SP1-4 N4, 5, 12, 15	Try It! video 9	Pages 49-54
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MON 8TH NOV

mn term / Week 8	Chapter 3 Introduct	tion to Algebra		 Chapter 3 introduction video Chapter 3 online skills test Chapter 3 end-of-chapter test and mark scheme Workbook 1C Chapter 3 Graded Question Bank 1, Chapter 3 Fully-worked solutions: Chapter 3 in Workbook 1C, and Graded Question Bank 1 	Pages
Autur	3.1 Letters to Represent Numbers	 Use letters to represent numbers Interpret simple algebraic notation 	DF2, 3, 4, 5, 7 RM1, 3, 5 SP1-4 N12 A1, 3, 6, 10		60-65

MON 15TH NOV

n term / ek 9	3.2 Substituting Numbers for Letters	• Substitute integers into simple expressions and formulae	DF2, 3, 4, 7 RM1, 3, 5 SP1-4 N12 A1, 2, 3, 5	Try It! videos 9, 13	Pages 66-70
Autumn t Week	3.3 Writing Algebraic Expressions and Formulae	• Write simple expressions and formulae	DF2, 3, 4, 5, 7 RM1, 3, 5 SP1-4 N12 A1, 2, 3, 5, 6, 10		71-73

MON 22nd NOV

m / Week 10	3.4 Like Terms and Unlike Terms	 Simplify expressions by collecting like terms 	DF2, 3, 4, 7 RM3, 5 SP1-4 N12 A1, 2, 3, 4		Pages 74-78
Autumn term	3.5 Addition and Subtraction of Linear Expressions	• Add and subtract linear expressions	DF2, 3, 4, 7 RM3, 5 SP1-4 N12 A1, 2, 3, 4	Try It! videos 22, 23, 24	79-82
Autumn term / Week 10 (continued)	3.6 Expressions with Brackets	• Expand a single bracket	DF2, 3, 4, 7 RM1, 3, 5 SP1-4 N12 A1, 4	⚠️ Try It! video 28	83-85

MON 29TH NOV

	Chapter 4 Simple Eq	uations		 Chapter 4 introduction video Chapter 4 online skills test Chapter 4 end-of-chapter test and mark scheme Workbook 1C Chapter 4 Graded Question Bank 1, Chapter 4 Fully-worked solutions: Chapter 4 in Workbook 1C, and Graded Question Bank 1 	Pages
nn term / Week 11	4.1 Equations in One Variable	 Understand the concept of equations and balancing Solve simple equations in one variable 	DF2, 4, 5 RM3, 5 SP1-4 N12 A1, 3, 7	Try It! videos 2, 6	92-97
Autumn	4.2 Equations in One Variable with Brackets	Solve simple equations involving brackets	DF2, 4, 5 RM3, 5 SP1-4 N12 A1, 3, 4, 7		99-100
	4.3 Writing Equations to Solve Problems	Write simple equations in one variable to solve problems	DF2, 4, 5 RM3, 5 SP1-4 N12 A3, 6, 7	Try It! videos 11, 14	101-105

MON 6TH DEC

Review and assessment: Review Exercise 1	DF1, 2, 3, 4, 7 RM1, 3, 5, 6 SP1-4 N1, 3, 4, 5, 7, 12, 13 A1, 2, 3, 4, 6, 7, 10 Workbook 1C Review 1	Pages 108-109
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SAT 18TH DEC – MON 3rd JAN XMAS HOLIDAY