SUMMER TERM DISCOVERING MATHS 2C YEAR 8 2022

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.

Students are encouraged to ask questions and investigate their own ideas to improve their problem solving skills as well as gain a deeper understanding of mathematical concepts.

WEDS 20TH APRIL

Summer term / Week 1		Processes and Heuristics in Quadrilaterals and Polygons		DF2, 3, 4, 5 RM3, 4, 5, 6 SP1-4 N4, 5 A1, 2, 3, 4, 6	5	Workbook 2C Chapter 9 Chapter 9 introduction video Chapter 9 online skills test Chapter 9 end-of-chapter test an Fully-worked solutions: Chapter Workbook 2C		ne
Summer term / Week 1	9.1 Quadrilaterals	classify special quadrilaterals on the basis of their properties recognise the properties of special quadrilaterals	DF2, 7 RM5 SP1-4 N12 G5, 7,	7 10, 11, 12, 16	(3 Try I	t! Videos 2, 3, 4	1102	244-253

MON		25TH APRIL			
Summer term / Week 2	9.2 Polygons	recognise the properties of polygons, including symmetry properties	DF2, 4, 7 RM4, 5 SP1-4 N12 A2 G5, 7, 10, 11, 12, 16	Try It! Videos 6, 9, 11	1100, 1320

253-361

TUES 3RD MAY

sk 3	Chapter 10 Perimeter	r and Area of Parallelograms and Trapezia		Workbook 2C Chapter 10 Chapter 10 introduction video Chapter 10 online skills test Chapter 10 end-of-chapter test and mark scheme Fully-worked solutions: Chapter 10 in Workbook 2C	
Summer term / Week	10.1 Area of Parallelograms	calculate the area of a parallelogram	DF2, 4, 7 RM4, 5 SP1-4 N12 A2 G1, 16	Try It! Video 2	1108
Š	10.2 Area of Trapezia	calculate the area of a trapezium	DF2, 4, 7 RM4, 5 SP1-4 N12 A2 G1, 16	⚠ Try It! Video 6	1128

<u>266-278</u>

MON 9TH MAY

Summer term / Week 4	10.3 Perimeter and Area of Composite Plane Figures	1	DF2, 4, 7 RM5 SP1-4 N12, 13, 15 A2 G1, 2, 6, 16	⚠ Try It! Video 9		
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278-284

MON 16TH MAY

term / Week 5	Chapter 11 Volume a	and Surface Area of Prisms and Cylinders	·	Workbook 2C Chapter 11 Chapter 11 introduction video Chapter 11 online skills test Chapter 11 end-of-chapter test and mark scheme Fully-worked solutions: Chapter 11 in Workbook 2C	
Summer	11.1 Views and Nets of Three- dimensional (3D) Shapes	visualise and draw sketches of three-dimensional shapes from different views visualise and draw the nets of prisms and cylinders	DF2, 7 RM5 SP1-4 N12 G15		1098, 1106

289-295

MON 23RD MAY

Total Surface Area of prisms Of Prisms Of Prisms RM SPI N1 A2	⚠ Try It! Videos 3, 5, 6	SP1-4 N12	1107, 1139
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<u>295-303</u>

HALF TERM SAT 28TH MAY-SUN 5TH JUNE

MON 6TH JUNE

Museum Samuel 11.3 Volume and Total Surface Area of Cylinders	calculate the volume and surface area of cylinders	DF2, 4, 7 RM4, 5 SP1-4 N12, 13, 15 A2 G1, 2, 15, 16	Try It! Videos 8, 9, 11	1107, 1138
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<u>303-310</u>

MON 13TH JUNE

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_	11.4 Volume and	 convert between cm² and m², and 	DF2, 4, 7	AT THE 12 14 15	1138, 1139
8	Surface Area of	between cm3 and m3	RM5	Try It! Videos 13, 14, 15	
term	Composite Solids	· solve problems involving volume and	SP1-4		
eek		surface area of composite solids	N12, 13, 15		
a a			A2		
Summer			R1		
0,			G1, 2, 6, 15, 16		

310-318

MON 20TH JUNE

	Chapter 12 Statistica	l Graphs		Workbook 2C Chapter 12	
				Chapter 12 introduction video	
				Chapter 12 online skills test	
9 k 9				Chapter 12 end-of-chapter test and mark scheme	
/ Week				Fully-worked solutions: Chapter 12 in Workbook 2C	
Summer term	12.1 Line Graphs	construct, analyse and interpret line graphs	DF2, 7 SP1-4 N12 S1, 2	Try It! Video 2	6018
Š	12.2 Pie Charts	construct, analyse and interpret pie charts	DF2, 7 SP1-4 N12 G3 S2	Try It! Video 5	1207

323-335

MON 27TH JUNE

er term / ek 10	12.3 Use and Misuse of Statistical Graphs	describe the purposes and appropriateness of use of the different forms of statistical representation, including pictograms and bar charts	DF2, 7 RM4, 7 SP1-4 N12	1251
Summ		explain why a given statistical diagram can lead to misinterpretation of data	S2	

335-347

MON 4TH JULY

<u>347-356</u>

MON 11TH JULY

Term / Week	Chapter/Chapter Section	Learning Objectives	KS3 Programme of Study Reference	Series Resources (in addition to Student Book 2C)	MyMaths Codes
Summer term / Week 12	Review and assessment: Review Exercise 3		DF2, 7 SP1-4 N12, 13, 15 A2 R1, 8, 10 G1, 2, 7, 12, 15, 16 S1, 2, 3	Workbook 2C Review 3 Fully-worked solutions: Review 3 in Workbook 2C	
	Problems in Real-world Contexts		DF2, 6, 7 RM1, 3, 7 SP1-4 N12, 13 A8, 10, 11 R1, 8, 10 G1, 2 S1, 2, 3		

360-367