## SUMMER TERM DISCOVERING MATHS 2A 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

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|---|---|---|---|---|---|
| Summer term / Week 1 | **Chapter 9 Angles and Parallel Lines** | | | Workbook 2A Chapter 9<br>Chapter 9 introduction video<br>Chapter 9 online skills test<br>Chapter 9 end of chapter test and mark scheme<br>Fully-worked solutions: Chapter 9 in Workbook 2A | |
| | 9.1 Properties of Angles | • Identify and apply the properties of angles on a straight line, vertically opposite angles and angles at a point | SP1–4<br>G5a, 10 | Workbook 2A Section 9.1<br>Try It! videos 3, 4 | 1990, 1082 |

**267-274**

## MON 25TH APRIL

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| Summer term / Week 2 | 9.2 Parallel Lines and Angle Properties | • Identify and apply the properties of corresponding angles, alternate angles and co-interior angles between parallel lines | SP1–4<br>G5a, 10, 11 | Workbook 2A Section 9.2<br>Try It! video 6 | 1109 |

274-283

**TUES 3RD MAY**

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|---|---|---|---|---|---|
| Summer term / Week 3 | **Chapter 10 Perimeter and Area of Quadrilaterals and Circles** | | | Workbook 2A Chapter 10<br>Chapter 10 introduction video<br>Chapter 10 online skills test<br>Chapter 10 end of chapter test and mark scheme<br>Fully-worked solutions: Chapter 10 in Workbook 2A | |
| | 10.1 Perimeter and Area of Parallelograms | • Calculate the perimeter and area of parallelograms<br>• Solve problems involving perimeter and area | DF7c<br>RM5b<br>SP1–4<br>G1b | Workbook 2A Section 10.1<br>Try It! video 4 | 1108 |
| | 10.2 Perimeter and Area of Trapezia | • Calculate the perimeter and area of trapezia<br>• Solve problems involving perimeter and area | DF7c<br>RM5b<br>SP1–4<br>G1b | Workbook 2A Section 10.2<br>Try It! video 8 | 1128 |

289-303

**MON 9TH MAY**

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| Summer term / Week 4 | 10.3 Circumference and Area of Circles | • Calculate the circumference and area of circles<br>• Solve problems involving circumference and area | DF7c<br>RM5b<br>SP1–4<br>G2a, 2b, 7c | Workbook 2A Section 10.3<br>Try It! videos 11, 13 | 1088, 1083 |

303-311

**MON 16TH MAY**

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| Summer term / Week 5 | 10.4 Perimeter and Area of Composite Shapes | • Calculate the perimeter and area of composite shapes<br>• Solve problems involving perimeter and area | DF7c<br>RM5b<br>SP1–4<br>G2c | Workbook 2A Section 10.4<br>Try It! video 17 | |

**311-315**

**MON 23RD MAY**

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|---|---|---|---|---|---|
| Summer term / Week 6 | 10.5 Conversion of Square Units | • Convert between square units | DF7c<br>SP1–4<br>R1 | Workbook 2A Section 10.5<br>Try It! video 19 | |
| | **Chapter 11 Surface Area and Volume of Prisms and Cylinders** | | | Workbook 2A Chapter 11<br>Chapter 11 introduction video<br>Chapter 11 online skills test<br>Chapter 11 end of chapter test and mark scheme<br>Fully-worked solutions: Chapter 11 in Workbook 2A | |
| | 11.1 Nets of Prisms and Cylinders | • Draw the nets of prisms and cylinders | DF7c<br>RM5b<br>SP1–4<br>G15b | Workbook 2A Section 11.1 | 1078, 1106 |

315-330

**HALF TERM SAT 28TH MAY – SUN 5TH JUNE330**

**MON 6TH JUNE**

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|---|---|---|---|---|---|
| Summer term / Week 7 | 11.2 Surface Area and Volume of Prisms | • Find the surface area and volume of prisms<br>• Solve problems involving the surface area and volume of prisms | DF7c<br>RM5b<br>SP1–4<br>G1d, 15b | Workbook 2A Section 11.2<br>Try It! video 6 | 1107, 1139 |
| | 11.3 Surface Area and Volume of Cylinders | • Find the surface area and volume of cylinders<br>• Solve problems involving the surface area and volume of cylinders | DF7c<br>RM5b<br>SP1–4<br>G1d, 15b | Workbook 2A Section 11.3<br>Try It! video 13 | 1139, 1138 |

**330-346**

**MON 13TH JUNE**

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|---|---|---|---|---|---|
| Summer term / Week 8 | 11.3 Surface Area and Volume of Cylinders | • Find the surface area and volume of cylinders<br>• Solve problems involving the surface area and volume of cylinders | DF7c<br>RM5b<br>SP1–4<br>G1d, 15b | Workbook 2A Section 11.3<br>Try It! video 13 | 1139, 1138 |
| | 11.4 Conversion of Cubic Units | • Convert between cubic units | DF7c<br>SP1–4<br>R1 | Workbook 2A Section 11.4<br>Try It! video 14 | 1329 |

338-349

**MON 20TH JUNE**

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|---|---|---|---|---|---|
| Summer term / Week 9 | **Chapter 12 Statistical Graphs** | | | Workbook 2A Chapter 12<br>Chapter 12 introduction video<br>Chapter 12 online skills test<br>Chapter 12 end of chapter test and mark scheme<br>Fully-worked solutions: Chapter 12 in Workbook 2A | |
| | 12.1 Pie Charts | • Read and interpret charts and graphs<br>• Represent data using pie charts | DF7e<br>RM5a, 7<br>SP1–4<br>S1a, 2b | Workbook 2A Section 12.1<br>Try It! video 2 | 1207 |
| 10 | 12.2 Line Graphs | • Read and interpret charts and graphs<br>• Represent data using line graphs | DF7e<br>RM5a, 7<br>SP1–4<br>S1a | Workbook 2A Section 12.2<br>Try It! video 4 | 6018 |

355-370

**MON 27TH JUNE**

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|---|---|---|---|---|---|
| | 12.2 Line Graphs | • Read and interpret charts and graphs<br>• Represent data using line graphs | DF7e<br>RM5a, 7<br>SP1–4<br>S1a | Workbook 2A Section 12.2<br>Try It! video 4 | 6018 |
| Summer term / Week 10 | 12.3 Scatter Graphs | • Represent data using scatter graphs<br>• Draw, analyse and interpret scatter graphs<br>• Describe types of correlation for a scatter graph<br>• Use a line of best fit to estimate data values<br>• Identify and explain outliers | DF7e<br>RM5a, 7<br>SP1–4<br>S3 | Workbook 2A Section 12.3<br>Try It! video 7 | 1213 |

362-380

**MON 4TH JULY**

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| Summer term / Week 11 | **Review and assessment:**<br>Integrated Examples and Review Exercise 3 | DF7c<br>RM5b<br>SP1–4<br>G1b, 2a, 2c, 5a, 10, 11<br>S2b, 3 | Workbook 2A Review 3<br>Fully-worked solutions: Review 3 in Workbook 2A | |

**385-394**

**MON 11TH JULY**

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|---|---|---|---|---|
| Summer term / Week 12 | **Problems in Real-world Contexts** | DF2, 7<br>RM5, 6<br>SP1–4<br>N4a, 4b, 10c<br>G1d | | |

**394-397**

**MON 18TH JULY**

**SAT 23RD JULY SSUMMER HOLIDAYS START**