SUMMER TERM DISCOVERING MATHS 7B 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.

WED 20TH APRIL

Summer term / Week 1	**Chapter 8 Angles, Parallel Lines and Triangles**			Chapter 8 introduction video Chapter 8 online skills test Chapter 8 end-of-chapter test and mark scheme Graded Question Bank 1, Chapter 8 Fully-worked solutions: Chapter 8 in Workbook 1B, and Graded Question Bank 1	
	8.1 Points, Lines and Planes	• Describe a point, a line, a line segment, a ray and a plane • Construct lines, line segments and angles using geometry software	DF2 RM5 SP1–4 N12 G3, 5, 13	Workbook 1B Section 8.1	
	8.2 Angles	• Identify different types of angles • Recognise the properties of vertically opposite angles, angles on a straight line and angles at a point	DF2 RM5 SP1–4 N2, 12 G3, 5, 10, 13, 16	Workbook 1B Section 8.2 Try It! video 4	1081, 1847, 1989, 1990, 1082

204-218

MON 25TH APRIL

Summer term / Week 2	8.3 Parallel Lines and Transversals	• Recognise the properties of angles formed by parallel lines and transversals • Find unknown marked angles in a diagram using the above properties	DF2 RM5 SP1–4 N12 G5, 11, 13, 16	Workbook 1B Section 8.3 Try It! videos 10, 11	1102

218-226

TUES 3RD MAY

Summer term / Week 3	8.4 Triangles	• Classify triangles based on their sides and angles • Understand the general properties of sides and angles of a triangle	DF2, 7 RM5 SP1–4 N2, 12 G6, 7, 12, 13, 16	Workbook 1B Section 8.4 Try It! videos 14, 17	1130, 1082

226-236

MON 9TH MAY

Summer term / Week 4	**Chapter 9 Transformations, Symmetry and Congruence**			Chapter 9 introduction video Chapter 9 online skills test Chapter 9 end-of-chapter test and mark scheme Graded Question Bank 1, Chapter 9 Fully-worked solutions: Chapter 9 in Workbook 1B, and Graded Question Bank 1	
	9.1 Transformations	• Translate 2D shapes • Reflect 2D shapes • Rotate 2D shapes	DF2 RM5 SP1–4 N12 G8	Workbook 1B Section 9.1 Try It! videos 1, 3, 4	1843, 1127, 1113, 1115, 1839

242-252

MON 16TH MAY

Summer term / Week 5	9.2 Symmetry	• Recognise and describe reflection symmetry of 2D shapes • Recognise and describe rotation symmetry of 2D shapes	DF2, 7 RM5 SP1–4 N12 G5	Workbook 1B Section 9.2	1230, 1114, 1116
	9.3 Congruence	• Understand the idea of congruence • Match the sides and angles of two congruent shapes	DF2 RM5 SP1–4 N12 G9	Workbook 1B Section 9.3 Try It! videos 8, 9	1148

252-267

MON 23RD MAY

Summer term / Week 6	**Chapter 10 Perimeter and Area of Triangles and Circles**			Chapter 10 introduction video Chapter 10 online skills test Chapter 10 end-of-chapter test and mark scheme Graded Question Bank 1, Chapter 10 Fully-worked solutions: Chapter 10 in Workbook 1B, and Graded Question Bank 1	
	10.1 Perimeter and Area of a triangle	• Find the perimeter and area of a triangle	DF2 RM5 SP1–4 N12 G1, 16	Workbook 1B Section 10.1 Try It! video 3	1110, 1129
	10.2 Circumference of a Circle	• Find the circumference of a circle • Find the perimeter of a semicircle and a quarter	DF2 RM5 SP1–4 N12, 13, 15 G2, 7, 16	Workbook 1B Section 10.2 Try It! video 6	1088

272-282

SAT 28TH MAY-SUN 5TH JUNE HALF TERM

MON 6TH JUNE

Summer term / Week 7	10.3 Area of a Circle	• Find the area of a circle • Find the area of a semicircle and a quarter	DF2 RM5 SP1–4 N12, 13, 15 G2, 7, 16	Workbook 1B Section 10.3 Try It! video 8	1083
	10.4 Perimeter and Area Problems	• Find a length given the perimeter or area of a shape • Solve problems involving perimeters and areas of composite plane figures formed by rectangles, squares, triangles and circles	DF2 RM5 SP1–4 N12, 13, 15 G2, 16	Workbook 1B Section 10.4 Try It! videos 10, 14	1129, 1088, 1083

282-290

MON 13TH JUNE

Summer term / Week 8	**Chapter 11 Volume and Surface Area of Cuboids, including Cubes**			Chapter 11 introduction video Chapter 11 online skills test Chapter 11 end-of-chapter test and mark scheme Graded Question Bank 1, Chapter 11 Fully-worked solutions: Chapter 11 in Workbook 1B and Graded Question Bank 1	
	11.1 Nets of Cuboids, including Cubes	• Draw nets of cuboids, including cubes	DF2, 7 RM5 SP1–4 N12 G15	Workbook 1B Section 11.1	1106, 1107

295-298

MON 20TH JUNE

Summer term / Week 9	11.2 Surface Area of Cuboids, including Cubes	• Calculate the surface area of cuboids, including cubes	DF2, 7 RM5 SP1–4 N12 G15, 16	Workbook 1B Section 11.2 Try It! video 4	1107
	11.3 Volume of Cuboids, including Cubes	• Calculate the volume of cuboids, including cubes • Solve problems involving volume and surface area of cuboids, including cubes	DF2, 7 RM5 SP1–4 N12 G1, 16	Workbook 1B Section 11.3 Try It! video 9	1137

298-306

MON 27TH JUNE

Summer term / Week 10	**Chapter 12 Collecting, Organising and Displaying Data**			Chapter 12 introduction video Chapter 12 online skills test Chapter 12 end-of-chapter test and mark scheme Graded Question Bank 1, Chapter 12 Fully-worked solutions: Chapter 12 in Workbook 1B, and Graded Question Bank 1	
	12.1 Collection of Data	• Recognise different methods of collecting data	DF2, 7 RM5 SP1–4 N12	Workbook 1B Section 12.1	1248, 1249

310-314

MON 4TH JULY

Summer term / Week 11	12.2 Organisation of Data	• Organise data • Create frequency tables	DF2, 7 SP1–4 N2, 10, 12 S1, 2	Workbook 1B Section 12.2 Try It! video 3	1385, 1235, 1193
	12.3 Pictograms, Vertical Line Charts and Bar Charts	• Construct, analyse and interpret pictograms, vertical line charts, bar charts and compound bar charts	DF2, 7 SP1–4 N10, 12 S1, 2	Workbook 1B Section 12.3 Try It! videos 6, 8	1193, 1205

314-331

MON 11TH JULY

Summer term / Week 12	**Review and assessment:** Integrated Examples and Review Exercise 3 Problems in Real-world Contexts	**Int Ex & Rev Ex 3** DF2, 7 RM5 SP1–4 N10, 12, 13, 15 R3, 8 G1, 2, 3, 5, 7, 10, 11, 12, 15 S1, 2 **Probs in Real-world Contexts** DF2, 7 RM5 SP1–4 N10, 12, 13 R1, 8 G1, 2, 7, 15 S1	Workbook 1B Review 3	

334-346

MON 18TH JULY

SAT 23rd JULY SUMMER HOLIDAYS