Our Mission at The Burgate School & Sixth Form

We provide a broad and diverse curriculum with a creative approach to learning that inspires curiosity, encourages collaboration, builds resilience, and develops flexibility of thought.

The Mathematics Department

1. Curriculum intent

Our aim is for all students to be numerate, confident mathematicians to support their future economic well-being. We want our students to be flexible problem solvers and for them to understand the relevance of their maths in real world contexts, throughout the curriculum and a vast number of careers.

We want our students to enjoy and appreciate the beauty and value of mathematics both man-made and in the natural world as well as the important history of maths. Similarly, we want them to be able to critically analyse and reflect on real life data and its implication for society. Ultimately our aim is for our students to be fluent in communicating their own ideas as well as exploring and questioning others.

2. Course guidance

Years 7 & 8

In Years 7 and 8 students follow our in-house scheme of work organised into logical units that cover all aspects of the national curriculum. Students will also have regular numeracy and problem-solving lessons.

When students enter the school in Year 7, we set them based upon a combination of their end of Junior school results and internal assessments. Each half year block will be set into 3 or 4 sets, enabling teaching to be directed more towards the needs of a group of similar ability so that students can work on a level suited to them. We regularly review our students' progress and suitability for the allocated set. This is done each term and students may be moved to another set if their ability and progress warrants a move.

Students will complete half termly tests to see if they have understood the work, to identify areas of strength and those in need of improvement to help us to make any set movements. MyMaths software is currently used, and students can access this from home with the appropriate username and password which is available from the mathematics staff. Students will also carry out investigations mathematically linked to various numeracy themes, both individually and in group exercises. This work is designed to encourage students to use logic; observe patterns; discover relationships or rules; describe clearly what they have done and seen, so developing a deeper understanding of Mathematics. There are regular links to numeracy in a real-world context and careers.

GCSE - Years 9, 10 and 11

In Year 9 students study our in-house scheme of work linked to topics required for the GCSE. The specific content in each set is broadly the same although there may be some variations dependent on the mathematics set. All students cover the same core concepts to allow for Higher and Foundation tiers to be an option for students for as long as possible.

Students can expect to work in a variety of ways including explorations, maths investigations, practical work, group discussions and consolidation exercises. There is a variety of learning resources and materials used with regular numeracy and problem-solving lessons. As with Year 7 and 8 mathematics is constantly linked to a real-world context and careers.

In Year 10 and 11 students work through all topics on the GCSE specification and are completed early in Year 11. We follow the **Edexcel GCSE Mathematics Specification A (Linear 1MA1)** at GCSE level. The final grade awarded at the end of Year 11 is determined by the marks from three exams taken at the end of Year 11. Please note, there is no coursework in Mathematics.

Students in Set 1 will also have the option to take an AQA Level 2 Further Mathematics qualification if at a suitable level of progress. This will build on their GCSE and introduce several topics that will be taken further at A-level Mathematics.

There are two tiers of entry: Foundation and Higher.

- For candidates entered for all Foundation units, grades 1-5 are available.
- For candidates entered for all Higher units, grades 5-9 are available (9 being the best).

All students will cover a mixture of topics throughout the two-year course with Handling Data (Statistics and Probability), Number, Algebra and Geometry all given roughly equal weighting. There is an increased focus on proportional thinking and problem solving in all mathematics courses and lessons will be geared towards improving student's confidence in this area.

One of the terminal papers will be non-calculator and a calculator is allowed for the other two. All papers last 1 hour 30 minutes.

We regularly review our students' progress and suitability for the allocated set. This is done each term and students may be moved to another set if their ability and progress warrants a move. Final tier entry is decided based on continuous assessment and mock examination results in Year 11. These decisions are made as late as possible to give students the highest chance of success.

Sixth Form: Year 12 & 13

We offer the **Pearson Edexcel Level 3 Advanced GCE in Mathematics** at A-level. The final grade awarded at the end of Year 13 is determined by the marks from three externally assessed exams taken at the end of Year 13. Please note, there is no coursework in Further Mathematics.

Exam board website: https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html

Specification:https://qualifications.pearson.com/content/dam/pdf/A%20Level/Mathematics/2017/specification-and-sample-assesment/a-level-l3-further-mathematics-specification.pdf

The two-year **A-Level course in Mathematics** consists of three units, two of core mathematics and one of applied mathematics (mechanics and statistics). The core units focus on algebra, calculus and trigonometry and have a strong emphasis on understanding the graphs of several functions. Mechanics is the study of forces and objects in motion, and you will look at the mathematics of projectiles, collisions, friction, stability and much else besides. You will also study Statistics, which involves gathering and analysing data and the study of probability theory.

We also offer the **Pearson Edexcel Level 3 Advanced GCE in Further Mathematics** at A-level. The final grade awarded at the end of Year 13 is determined by the marks from four externally assessed exams taken at the end of Year 13. Please note, there is no coursework in Mathematics.

Exam board website: https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html

Specification: https://qualifications.pearson.com/content/dam/pdf/A%20Level/Mathematics/2017/specification-and-sample-assesment/a-level-l3-further-mathematics-specification.pdf

To study **A-level Further Mathematics**, you must also opt for the A Level course. You will then study additional core units, introducing you to many new areas of mathematics including the wonderful world of imaginary numbers and matrices. You will also study Decision Mathematics in greater depth and be introduced to; the mathematics behind many algorithms used in problem solving. This course is best suited to able and enthusiastic mathematicians. Successfully engaging with the further maths course leads to students being stronger more rounded mathematicians with a superbly transferable set of skills that are highly sought after

Equipment for Mathematics:

To ensure students can make the most of their lessons they need a fully equipped pencil case for every lesson. It should contain two blue or black good writing pens/biros, a green pen, two pencils, a ruler, a protractor, rubber, pencil sharpener, some coloured pencils, scissors, a glue stick and highlighter. A lack of equipment is a major obstacle to success in this subject.

The **Casio fx-83GTX** or **Casio FX-83GTCW** are the minimum-specification and recommended calculator for GCSE. It has all the functionality you require for the exam so if looked after it should last a student's whole school experience. However other similar models are available and will have similar functions. In Years 7 and 8 a basic calculator will suffice, but they are likely to require a scientific calculator later in their school career, so we recommend purchasing a scientific one such as the **Casios** mentioned above from the start so they can become familiar with them.

Schemes of Work overviews

Year Group	Topics		Supportive Resources
7	Autumn	**Sections covered:** Unit 1: Core Number Unit 2: Geometry and Measures Unit 3: Number	To support yourself in Mathematics you should do the following: Use your A5 **skills book** to learn key mathematical theory and formulae

	Spring	Unit 4: Number and Statistics Unit 5: Geometry Unit 6: Algebra Unit 7: Number	Purchase and use the **Key Stage 3 CGP revision guide**. The department provides an opportunity to purchase these at a discounted price in the Autumn term. Look up the theory on **MyMaths** using the interactive PowerPoint lessons and then practice the skills in the online homework sections. All students have a log in they will be issued by their teacher at the beginning of the year. **Website:** https://www.mymaths.co.uk/ Use the **Corbett Maths** website for videos on the methodology and then practice using the worksheets and exam style questions which all have answers provided. **Website:** https://corbettmaths.com/ Guidance video and worksheet section: https://corbettmaths.com/contents/ **Other useful support websites:** **GCSE Bitesize**: https://www.bbc.co.uk/bitesize/examspecs/z9p3mnb **Dr Frost videos:** https://www.youtube.com/c/DrFrostMaths/featured?app=desktop
	Summer	Unit 8: Geometry Unit 9: Number Unit 10: Algebra & Probability Unit 11: Statistics project	
8	Autumn	**Sections covered:** Unit 1: Factors Multiples Primes Unit 2: Nth Term	To support yourself in Maths you should do the following:

		Unit 3: Shape Properties Unit 4: Constructions Unit 5: Loci Unit 6: Probability Unit 7: Fractions, Decimals and Unit 8: Percentage (FDP) Unit 9: Ratios Unit 10: Brackets On, Brackets Off (Factorising and Expanding)	Use your A5 **skills book** to learn key mathematical theory and formulae. Purchase and use the **Key Stage 3 CGP revision guide**. The department provides an opportunity to purchase these at a discounted price in the Autumn term. Look up the theory on **MyMaths** using the interactive PowerPoint lessons and then practice the skills in the online homework sections. All students have a log in they will be issued by their teacher at the beginning of the year. **Website**: https://www.mymaths.co.uk/ Use the **Corbett Maths** website for videos on the methodology and then practice using the worksheets and exam style questions which all have answers provided. **Website**: https://corbettmaths.com/ Guidance video and worksheet section: https://corbettmaths.com/contents/ **Other useful support websites:** **GCSE Bitesize**: https://www.bbc.co.uk/bitesize/examspecs/z9p3mnb **Dr Frost videos:** https://www.youtube.com/c/DrFrostMaths/featured?app=desktop
	Spring	Unit 11: Metric Units Unit 12: Area & Volume Unit 13: BIDMAS, Rounding & Approximation Unit 14: Coordinates & Line Graphs Unit 15: Write and Solve Equations and Simultaneous Equations (in certain sets) Unit 16: Coordinates and Line Graphs Unit 17: Transformations	
	Summer	Unit 18: Draw and Interpret Graphs and Charts Unit 19: Four Operations Unit 20: Negative Numbers Unit 21: Powers Unit 22: Angle Facts (& Pythagoras in set1) Unit 23: Collecting Data	

9	Autumn	**Sections covered:** Unit 1: Types of Number, Sequences, Indices, nth term **(N1, N2, N3, N4, N6, N7, A23, A24, A25)** Unit 2: Handling Data **(S2, S4, S5, S6)** Algebraic manipulation, Solving Equations and Simultaneous Equations, Inequalities **(N1, A1-7, A17, A19, A21-22)** Unit 3: Angle Facts & Pythagoras **(G2-3, G15, G20)** Unit 4: Negative Numbers, Rounding & Approximation **(N2, N9, N14-16)** Unit 5: Fraction, Decimal, %, Ratio **(N2, N8, N10-12, R2-10, R13-14, R16)**	To support yourself in Maths you should do the following: Use your A5 **skills book** to learn key mathematical theory and formulae Purchase and use the **CGP GCSE revision guide**. The department provides an opportunity to purchase these at a discounted price in the Autumn term. Look up the theory on **MyMaths** using the interactive PowerPoint lessons and then practice the skills in the online homework sections. All students have a log in they will be issued by their teacher at the beginning of the year. Website: https://www.mymaths.co.uk/ Use the **Corbett Maths** website for videos on the methodology and then practice using the worksheets and exam style questions which all have answers provided. Website: https://corbettmaths.com/ Guidance video and worksheet section: https://corbettmaths.com/contents/ **Other useful support websites:** **GCSE Bitesize**: https://www.bbc.co.uk/bitesize/examspecs/z9p3mnb
	Spring	Unit 6: Metric Units, Area & Volume **(N8, N13, R1, R11, G9, G14, G16, G17, G18)** Unit 7: Coordinates & y=mx+c **(A8, A9, A10)** Unit 8: Probability **(P1-8)** Unit 9: Metric Units, Area & Volume **(N8, N13, R1, R11, G9, G14, G16, G17, G18)** Unit 10: Coordinates & y=mx+c **(A8, A9, A10)** Unit 11: Probability **(P1-8)** Unit 12: Transformations **(G24)** Unit 13: Brackets On Brackets Off **(A18)** Unit 14: Interpreting Data **(S2-5, S3 Higher only)**	
	Summer	Unit 15: Properties of 2D Shapes and Unit 16: 3D Objects **(G12, G13, G1, G4)** Unit 17: Pythagoras and Trigonometry **(G20, G22, G22)** Unit 18: Indices **(N7)** Unit 19: More Data **(S3-4)**	

		Unit 20: Line and Curved Graphs **(A9-12, A14)**	**Dr Frost videos:** https://www.youtube.com/c/DrFrostMaths/featured?app=desktop
10	Autumn	**Exam Board: Edexcel** **Course: GCSE Mathematics (1Ma1**) *In Year 10 students cover the topics needed for GCSE Mathematics in our own logical sequence to enhance connections between topics and engagement. There will also be some **Exploration** lessons that relate to other subjects and lessons with links to **real world application** including **numeracy** and **careers** will be regular. The relevant sections of the GCSE specification are linked to each topic covered below:* **Sections covered:** Unit 1: Percentages **(N12, R9, R16)** Unit 2: Algebra – Brackets On. Brackets Off **(A1-7, A18)** Unit 3: Fractions 1 **(N2, N8, N10, N12, R3)** Unit 4: Linear Equations **(N1, A17-19, A21-22)** Unit 5: Powers, Roots, Indices and Surds **(N4-9)** Unit 6: Drawing and Constructing 3-D Shapes, Pythagoras and Trigonometry **(G2, G12-13, G20-23)** Unit 7: Ratio and proportion **(N11, R2, R4-8, R10, R13-14)**	**GCSE Edexcel Exam board specification website:** https://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html **Exam papers website section:** https://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.coursematerials.html#filterQuery=Pearson-UK:Category%2FExam-materials To support yourself in Maths you should do the following: Use your A5 **skills book** to learn key mathematical theory and formulae Purchase and use the **CGP GCSE revision guide**. The department provides an opportunity to purchase these at a discounted price in the Autumn term. Look up the theory on **MyMaths** using the interactive PowerPoint lessons and then practice the skills in the online homework sections. All students have a log in they will be issued by their teacher at the beginning of the year. Website: https://www.mymaths.co.uk/
	Spring	Unit 8: Angles 1 **(G1, G3-4, G10, G15)** Unit 9: Perimeter and Area **(N8, G9, G16-18)** Unit 10: Collecting & Displaying Data & Statistical Measures **(S1-6)** Unit 11: Probability **(P1-8, P9)** Unit 12: Angles review	

		Unit 13: Volume and Surface Area **(R1, R12, G14, G16-17)**	Use the **Corbett Maths** website for videos on the methodology and then practice using the worksheets and exam style questions which all have answers provided.
	Summer	Unit 14: Scales, Units and Compound Measures **(N13, R1, R11, G14)** Unit 15: Displaying Data (S2, **S3, S6)** Unit 16: Whole Numbers, Sequences and Formulae **(N3, A23, A24, A25, A21)** Unit 17: Fractions 2 **(N2, N8, N10, N12, R3)** Unit 18: Linear Graphs **(R14-15, R15 Higher only, A8-14, A13 Higher only)** Unit 19: Transformations **(G8, G24)** Unit 20: Drawing and Constructing 2-D shapes **(G2, G17)**	
11	Autumn	Exam Board: Edexcel Course: GCSE Mathematics (1Ma1) *In Year 11 students complete the remaining topics needed for GCSE Mathematics in our own logical sequence to enhance connections between topics and engagement. There will also be links to **real world application** including **numeracy** and **careers**. The relevant sections of the GCSE specification are linked to each topic covered below:* **Sections covered:** Unit 20: Transformations review **(G8-G24)** Unit 21: Linear Graphs review **(R14-15 Higher only, A8-14, A13 Higher only)** Unit 22: Decimal Calculations / Quadratics **(N14-16, A11, A22)** Unit 23: Scale Factors/Similar Shapes **(R12, G5-7, G19)** Revision	**GCSE Edexcel Exam board specification website:** https://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html **Exam papers website section:** https://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.coursematerials.html#filterQuery=Pearson-UK:Category%2FExam-materials Use your **skills book** to learn key mathematical theory and formulae Students will be issued a **week-by-week revision schedule and CGP workbook**. Students should complete the workbook, make notes and practice questions on the corresponding topics using the

			revision guide, MyMaths and websites such as CorbettMaths. Once this work is completed, they should revisit the topics at regular intervals to help your recall.
	Spring	*In the Spring term students will complete the GCSE topics and then begin to follow a **bespoke scheme of work** produced by their teacher based on revising all aspects of the syllabus, staff judgement of important topics and methods, mock exam results and the topics identified in our analysis as needing improvement.* ***Intervention lessons** are provided during tutor time for both Higher and Foundation tier students based on those in most need of support from the various mock and assessment results.* **Sections covered:** Unit 23: Iteration / Simultaneous Equations **(A19-20, R16)** Unit 24: Coordinates and vectors **(G25)** Unit 25: Further Functions and Transformations **(R15-16, A7, A11-16)** Unit 26: Proof and Algebraic Representation **(A6, R10)**	

	Summer	*In the Summer term students will continue to follow a **bespoke scheme of work** produced by their teacher based on revising all aspects of the syllabus, staff judgement of important topics and methods, mock exam results and the topics identified in our analysis as needing improvement.* ***Intervention lessons** are provided during tutor time for both Higher and Foundation tier students based on those in most need of support from the various mock and assessment results.*	

A-level Mathematics

12	Autumn	**Pure** Coordinate geometry Quadratics Indices and surds Equations and inequalities Trigonometric ratios and identities Differentiation one Graph sketching one **Applied** Measure of spread Measures of location	The school has a subscription to this site which is good for going through techniques and some explanations for topics https://www.mymaths.co.uk This free site has power points on topics which are second to none and also link to the textbooks https://www.drfrostmaths.com/downloadables.php? This free site has solutions to the textbook questions and also past exam questions with examiners reports and solutions

		Sampling methods Types of data Large data set Representing data Correlation Regression Modelling in mechanics Vectors Constant acceleration Displacement time and velocity time graphs	https://www.physicsandmathstutor.com/maths-revision/solutionbanks/ https://www.physicsandmathstutor.com/maths-revision/ This site has a range of excellent opportunities for students in terms of thinking about the next stage https://amsp.org.uk/students/studying-a-level-mathematics/whats-next/ Use your **Pearson textbooks** issued to learn key mathematical theory and formulae and practice exam style questions
	Spring	**Pure** Differentiation two Tangents and normals Graph sketching two Transformations of graphs Circles Binomial expansion Integration Factor theorem and algebraic division **Applied** Probability Binomial distribution Hypotheses testing Vertical motion under gravity Forces	
	Summer	**Pure** Vectors Exponentials and logarithms Proof Algebraic methods one	

		Functions **Applied** Normal distribution Connected Particles Calculus and Variable Acceleration	
13	Autumn	**Pure** Algebraic methods two Sequences and series Binomial expansion two Radians Trigonometric functions Trigonometry and modelling Differentiation Parametric equations one **Applied** Variable acceleration Forces and motion Regression, correlation and hypothesis testing Conditional probability Moments	The school has a subscription to this site which is good for going through techniques and some explanations for topics https://www.mymaths.co.uk This free site has power points on topics which are second to none and also link to the textbooks https://www.drfrostmaths.com/downloadables.php? This free site has solutions to the textbook questions and also past exam questions with examiners reports and solutions https://www.physicsandmathstutor.com/maths-revision/solutionbanks/ https://www.physicsandmathstutor.com/maths-revision/ This site has a range of excellent opportunities for students in terms of thinking about the next stage https://amsp.org.uk/students/studying-a-level-mathematics/whats-next/
	Spring	**Pure** Parametric equations two Numerical methods Integration Vectors **Applied** Forces and friction Projectiles	

		Application of forces Further mechanics	Use your **Pearson textbooks** issued to learn key mathematical theory and formulae and practice exam style questions
	Summer	Exam technique and revision	

A-level Further Mathematics

12 Further	Autumn	Complex numbers one Argand diagrams Series one Roots of polynomials Volumes of revolution one Matrices Linear transformation Proof by induction	*Students are directed towards a range of further reading in the subject to help them make the choice of study at the next stage* *Students are given guidance with STEP MAT and TMUA entrance exams if needed including online sessions with the amsp* The school has a subscription to this site which is good for going through techniques and some explanations for topics https://www.mymaths.co.uk This free site has power points on topics which are second to none and also link to the textbooks https://www.drfrostmaths.com/downloadables.php? This free site has solutions to the textbook questions and also past exam questions with examiners reports and solutions https://www.physicsandmathstutor.com/maths-revision/solutionbanks/ https://www.physicsandmathstutor.com/maths-revision/
	Spring	Vectors Complex numbers two Series two Methods in calculus Volumes of revolution two	
	Summer	Polar coordinates Hyperbolic functions Methods in differential equations Modelling with differential equations	

			This site has a range of excellent opportunities for students in terms of thinking about the next stage https://amsp.org.uk/students/studying-a-level-mathematics/whats-next/ Use your **Pearson textbooks** issued to learn key mathematical theory and formulae and practice exam style questions
13 Further	Autumn	Core one and two topics reviewed throughout term Vectors further pure one Algorithms Graphs and networks Algorithms on graphs Reducible differential equations Route inspection The travelling salesperson problem Solving first and second order differential equations numerical methods Conic sections one Simpsons rule Inequalities The t formula	*Students are directed towards a range of further reading in the subject to help them make the choice of study at the next stage* *Students are given guidance with STEP MAT and TMUA entrance exams if needed including online sessions with the amsp* Further pure one module and decision maths optional modules are studied although the decision maths option may be reviewed depending on the needs of the students at the next stage The school has a subscription to this site which is good for going through techniques and some explanations for topics https://www.mymaths.co.uk This free site has power points on topics which are second to none and also link to the textbooks https://www.drfrostmaths.com/downloadables.php?
	Spring	Core one and two topics reviewed throughout term Linear programming Conic sections two The simplex algorithm	

		Taylor series Methods in calculus Critical path analyses	This free site has solutions to the textbook questions and also past exam questions with examiners reports and solutions https://www.physicsandmathstutor.com/maths-revision/solutionbanks/ https://www.physicsandmathstutor.com/maths-revision/ This site has a range of excellent opportunities for students in terms of thinking about the next stage https://amsp.org.uk/students/studying-a-level-mathematics/whats-next/ Use your **Pearson textbooks** issued to learn key mathematical theory and formulae and practice exam style questions
	Summer	Exam technique and revision	

Support and Guidance

What do if students are finding homework a challenge:

If students are struggling with homework tasks or work in class, they should do the following:

- Refer to the list of supportive resources in the Scheme of Work overviews above
- Use the more detailed topic overview documents below to plan revision of the topics covered in class at home
- Use their A5 skills book and students are issued and complete
- Look up the theory on **MyMaths**, their **CGP revision guides**, **Corbett Maths** videos https://corbettmaths.com/contents/, **GCSE Bitesize** (https://www.bbc.co.uk/bitesize/subjects/z38pycw) and/or textbooks. MyMaths is an excellent resource with notes and

practice examples that is often used for students second homework of the week. For each topic there is an online homework and lesson which explains the theory.

- In Year 10 and 11 and Sixth Form look at past exam questions on the exam board websites
- Speak to their teacher. We will not set extended homework overnight so students should have time to do this.

If ICT access is an issue, please ask students to attend Homework Club.

MyMaths parental user guide: **Found on Mathematics Curriculum page**
MyMaths is an excellent website, we have a subscription for all students which they should use regularly. The guidance file above will show you how to use the site and login details will be given to students in class.

Topic and Assessment Overviews

To aid students and parents in Mathematics here are more detailed weekly overviews of the topics taught and when assessments are held. All key Learning Landmark assessments are mixed and will include the topics taught up to that point. With these documents students will know what topics have been covered and could be in the assessment. They should also have copies in their maths books.

To aid students and parents in mathematics here are weekly overviews of the topics taught and when assessments are held. All key Learning Landmark assessments are mixed and will include the topics taught up to that point. With these documents students will know what topics have been covered and could be in the assessment.

Year 7 weekly topic overview: **Found on Mathematics Curriculum page**

Year 8 weekly topic overview: **Found on Mathematics Curriculum page**

Year 9 weekly topic overview: **Found on Mathematics Curriculum page**

Year 10 weekly topic overview: **Found on Mathematics Curriculum page**

Year 11 Additional Support and Guidance

Year 11 Revision schedule: **Found on Mathematics Curriculum page**

Year 11 Specification Topics to cover - Higher **Found on Mathematics Curriculum page**

Year 11 Specification Topics to cover - Foundation **Found on Mathematics Curriculum page**

To enhance the chances of success for all Year 11 students in their final GCSE examinations the Maths department have designed a weekly revision schedule. This should guide your child in their preparation for their final Maths examinations in May/June. All students should complete revision notes and practice questions on the topics listed each week in addition to any homework set. The schedule will be issued to students in class in the form of a booklet. This booklet will include the revision schedule and the Edexcel GCSE specification for both the Higher and Foundation tier of entry. If students are unsure which tier of entry, they are likely to sit they should speak to their classroom teacher. I have also included these documents in this communication so you can have a digital copy to use at home and support/monitor your child in finishing this work. All labels on the schedule are linked to the GCSE Edexcel specification document. As you can see from the document if students leave this too late, they will not have adequate time to prepare.

Year 11 students should complete the following tasks as part of the revision schedule for each topic area on a weekly basis:

- Make theory notes from MyMaths, CGP revision guides, Corbett Maths videos , GCSE Bitesize and/or textbooks. MyMaths is an excellent resource with notes and practice examples.
- Complete practice questions from MyMaths, past practice papers and/or the textbook
- Revisit these topics later re-reading notes made and completing additional questions

Staff will regularly check this work is being completed in class. It should also highlight topics students do not understand and can speak to their teachers about. Any questions regarding this, students should ask their classroom teacher.

3. Explorations

We provide several learning exploration opportunities for students in Year 9 to carry out tasks that link their mathematics and numeracy to other areas of the curriculum and subjects beyond the syllabus. They are detailed below.

Year	Term	Exploration
9	Autumn	Sequences and cardioids investigation Fibonacci art investigation Cryptography (coding) Crinkle Crankle walls Map reading task
	Spring	Construct a goat house Landscape designer Islamic art investigation Building manager project
	Summer	Understanding political data Understanding mortgages Managing finances: 1) Understanding credit 2) Understanding how loans work 3) Personal finance