Thursday 11th April

Dear Parents/Carers,

Year 10 Mock Examinations

I am writing to you to inform you that the Year 10 Mock period will run between **Monday 13th May and Wednesday 19th June.** Students studying Food Technology will have their actual Public GCSE on **Tuesday 18th June**.

It is important that students are preparing thoroughly for these examinations. These mock exams allow us to measure the progress your son/daughter has made since the beginning of their GCSE course. These mock exams will identify if any intervention needs to take place and will for some subjects result in set changes taking place for Year 11.

Please find attached to this letter the mock examination timetable and the material that students need to be revising in each of their subjects. Please take the time to read this content so that you are fully aware what your child should be revising at home to support their preparations.

All students will have the option to attend a revision club every Tuesday and Thursday prior to and during the assessment window. Here they can bring any revision material along and receive support with their revision.

I look forward to seeing you all in July for the parents Consultation day.

Yours Sincerely,

Mr Clarke
Head of Year 10

Date	When?	Subject	Staff Member	Venue	Class
Monday 13 May 2019	Period 1	Combined Science (Chemistry)	Dr Osborne	Normal room	10y1
Monday 13 May 2019	Period 5 & 6	Food Studies	Miss Lynch	Normal room	10C/Fs1 & 10yw/Fs1
Tuesday 14 May 2019	Period 2	Biology	Mrs Jones	Normal room	10w1
Tuesday 14 May 2019	Period 2	Biology	Dr Osborne	Normal room	10x3
Tuesday 14 May 2019	Period 2	Chemistry	Mr Catto	Normal room	10x2
Wednesday 15 May 2019	Period 5	Biology	Mrs Jones	Normal room	10w1
Wednesday 15 May 2019	Period 4	Biology Paper 1	Miss Start	Normal room	10y2
Wednesday 15 May 2019	Period 5	Physics	Mr Ram	Normal room	10x2
Thursday 16 May 2019	Period 4	Biology	Miss Mayor	Normal room	10x1
Thursday 16 May 2019	Period 4	Biology Paper 1	Miss Start	Normal room	10y2
Thursday 16 May 2019	Period 4	Chemistry	Miss Ghoris	Normal room	10y3
Thursday 16 May 2019	Period 4	Chemistry	Mr Catto	Normal room	10x2
Thursday 16 May 2019	Period 2	Physical Education	Mr O'Connor	Normal room	10B/Pg1
Thursday 16 May 2019	Period 3	Physics	Mrs Jones	Normal room	10w1
Friday 17 May 2019	Period 1	Biology	Dr Osborne	Normal room	10x3
Friday 17 May 2019	Period 1	Biology	Miss Mayor	Normal room	10y3
Friday 17 May 2019	Period 1	Combined Science (Chemistry)	Dr Osborne	Normal room	10y1
Friday 17 May 2019	Period 1	Physics	Mr Ram	Normal room	10x2
Monday 20 May 2019	Period 5	Chemistry	Mrs Brown	Normal room	10x1
Monday 20 May 2019	Period 6	Chemistry	Mrs Brown	Normal room	10x4
Monday 20 May 2019	Period 5	Chemistry Paper 1	Miss Start	Normal room	10w1
Monday 20 May 2019	Period 3	Maths Paper 1A (Calculator)	All Maths	Normal room	All
Tuesday 21 May 2019	Period 1	Biology	Miss Ghoris	Normal room	10x2
Tuesday 21 May 2019	Period 1	Chemistry	Mrs Brown	Normal room	10x1
Tuesday 21 May 2019	Period 2	Physical Education	Mr O'Connor	Normal room	10B/Pg1
Tuesday 21 May 2019	Period 4	Physics	Mrs Jones	Normal room	10w1
Tuesday 21 May 2019	Period 3	Maths Paper 1B (Calculator)	All Maths	Normal room	All
Wednesday 22 May 2019	Period 5	Biology	Miss Ghoris	Normal room	10x2
Wednesday 22 May 2019	Period 1	Biology Paper 1	Miss Start	Normal room	10x4
Wednesday 22 May 2019	9am	Maths Paper 2 (Non-calculator)	All Maths	Auditorium	All
Thursday 23 May 2019	Period 4	Biology Paper 1	Miss Start	Normal room	10x4
Thursday 23 May 2019	Period 5	Chemistry	Miss Ghoris	Normal room	10y3
Thursday 23 May 2019	Period 5	Chemistry	Mrs Brown	Normal room	10x4
Thursday 23 May 2019	Period 3	Chemistry Paper 1	Miss Start	Normal room	10w1
Friday 24 May 2019	1.30pm	Religious Eductaion	All RE	Auditorium	All
Monday 10 June 2019	9am	English	All English	Auditorium	All
Monday 10 June 2019	Period 5 & 6	Product Design	Miss Conroy Mrs Dane	T2 & T4	All
Tuesday 11 June 2019	All day	Art	Miss Swingler	A1	10C
Tuesday 11 June 2019	All day	Art	Mrs Baptiste	A2	10B
Wednesday 12 June 2019	1.30pm	History	All History	Auditorium	All
Thursday 13 June 2019	1.30pm	Geography	All Geography	Auditorium	All
Friday 14 June 2019	All day	Art	Mrs Baptiste	A2	10A
Monday 17 June 2019	9am	French Writing and Reading	All French	Auditorium	All
Tuesday 18 June 2019	1.30pm	Maths Paper 3 (Calculator)	All Maths	Auditorium	All
Wednesday 19 June 2019	1.30pm	Business Studies	All Business	Auditorium	All

English

This revision plan will help you prepare for the English Language **Paper 1 mock** (Monday 10th June). A good revision session is 20-30 minutes of focussed work, then give yourself a break of 10 minutes, followed by another 20-30 minute revision session. Each activity on this sheet will take about 30 minutes.

Remember:

- Find a quiet place to work
- Research proves music does **not** help you concentrate. Silence is best. Definitely don't have the TV/radio on!
- Try and find a clock/timer to time 30 minutes. Ideally, don't use your phone, as then you will be tempted to check WhatsApp/IG/etc.

Session	Activity	Completed
Paper 1		
1	Use page 164/165 of your planner to make revision cards for **literary** techniques. On the front of the card, you should put the name of the technique e.g. 'metaphor'. On the back, you should put a definition and an example. Test yourself or get someone else to test you.	
2	Qu 5 – Find a New Yorker Fiction short story which looks in interesting to you. (https://www.newyorker.com/magazine/fiction) Read the story and bullet point what happens. Then, find 5 words you do not understand, look them up and write 5 different sentences of your own using the new words.	
3	Qu 5 – Turn to page 20 of your planners. Using the Synchronised Sentences sheet, write about a busy/beautiful place you have been recently using 10 different synchronised sentences including a colon and a semi-colon.	
4	Qu 5 – Find 3 different synonyms for the following words: scared, dark, big, stormy, silent, colourful, sad, small, empty, loud.	
5	Qu 1-5 – Create revision cards to help you approach each question. On the front, it should say the question e.g. 'Question 1, Paper 1'. On the back, you should write down the steps your teacher has given you to approach the question.	
6	Qu 3 – Use the 'Edna' revision guide to practice a Paper 1, Question 3 answer.	
7	Qu 4 – Use the 'Edna' revision guide to practice a Paper 1, Question 4 answer.	
8	Read back over any Paper 1 exam papers or questions you have completed in your books or on paper. Make a note of the targets your teacher has given you. Are there any that are repeated? Can you address that target now by practising?	

Maths

Foundation

You will be undertaking your end of year assessments during May and June. The papers are designed to mostly test your learning from September of Year 10, but will also require you to recall knowledge from Key Stage 3. The assessments will be similar in format to GCSE papers, and therefore there will also be topics that you may not yet have covered that will appear in the papers. This is intentional, and is designed so that you can receive an accurate reflection of your current working grade. Teachers will use your scores to help form a judgement about your progress in the GCSE course, and your scores will be reported home.

- Paper 1A (Calculator): **Monday 20th May (Lesson)**
- Paper 1B (Calculator): **Tuesday 21st May (Lesson)**
- Paper 2 (Non-calculator): **Wednesday 22nd May (auditorium)**
- Paper 3 (Calculator): **Tuesday 18th June (auditorium)**

It is recommended that you use your class notes, MathsWatch, corbettmaths and revision guides to help with your revision. Below are the clips that are relevant to the topics that are to be tested.

Reminder: MathsWatch is at **www.vle.mathswatch.co.uk**
Your username is the same as your **mymaths username @bishopchalloner**
Your password is: **bishop**

When you log in, click on Videos. Ensure that you have selected qualification as 'GCSE' and then search for each topic using the topic titles provided below.

Other useful websites:

https://corbettmaths.com/contents/

Use this website for worksheets and worked solutions on various different topics.

Algebra

Topic	MathsWatch?	Corbett maths?
Algebraic Manipulation including collecting like terms		
Expanding brackets		
Factorising		
Substitution		
Expanding and simplifying, including quadratics		
Solving linear equations		
Rearranging formulae		
Forming and solving expressions and equations		
Drawing straight line graphs and co-ordinates		
Drawing quadratic graphs		
Using the nth term of linear and quadratic sequences		

Number, Ratio & Proportion

Topic	MathsWatch?	Corbett maths?
Ordering, multiplying, dividing integers		
Adding, subtracting, multiplying & dividing decimals		
Adding, subtracting, multiplying & dividing fractions		
Ordering fractions, decimals and percentages		
Fractions and percentages of amounts		
Converting between fractions/decimals/percentages		
Increase/decrease by a percentage including compound interest		
Compound interest and depreciation		
Ratio (sharing in a given ratio)		
Proportion (including recipe questions and value for money)		
Proportion (including scale drawings)		
Money questions		
Factors, multiples and primes (including LCM and HCF)		
Powers/Indices and reciprocals		
Rounding and estimating to decimal places/significant figures		
Standard Form		
Bounds		
Problems involving time and bus timetables		
Compound measures (speed & pressure)		

Handling Data and Geometry

Topic	Mathswatch?	Corbett maths?
Averages & range		
Averages from a table		
Tally charts & bar charts		
Frequency Diagrams (including frequency polygons)		
Stem and Leaf		
Drawing Pie Charts		

Scatter Diagrams		
Area and perimeter (including circles and semi-circles)		
Angles in parallel lines		
Angles in polygons		
Unit conversions (mm/cm/m; g/kg etc)		
Nets, plans and elevations		
Volumes of prisms including triangular prisms		
Surface area of 3D shapes (including pyramids)		
Transformations including reflection, rotation, translations		
Pythagoras and right angle trigonometry		

Probability

Topic	Mathswatch ?	Corbett maths?
Probability scales and probability tree diagrams		
Theoretical and experimental probability		
Venn Diagrams and set notation		
Frequency trees		
Listing strategies		

Higher Revision

Algebra

Topic	Mathswatch?	Corbett maths?
Algebraic manipulation		
Expanding brackets		
Factorising		
Substitution		
Expanding and simplifying, including quadratics and algebraic fractions		
Solving linear equations		
Rearranging formulae		
Factorising and solving quadratics (including the difference of two squares)		
Drawing and using quadratic graphs		
Forming algebraic expressions and equations		
Solving inequalities		
Equations of straight line graphs		
Simultaneous equations (linear, quadratic and graphical)		
Nth Term of sequences (linear and quadratic)		
Algebraic proof		
Trigonometric graphs		
Speed-time graphs and distance-time graphs		
Quadratic inequalities		
Functions (composite)		

Number, Ratio & Proportion

Topic	Mathswatch?	Corbett maths?
Multiplying and dividing integers		
Adding, subtracting, multiplying & dividing decimals		
Adding, subtracting, multiplying & dividing fractions		
Ordering fractions, decimals and percentages		
Recurring decimals to fractions		
Percentages of amounts		

Topic	Mathswatch?	Corbett maths?
Increase/decrease by a percentage		
Percentage change including percentage profit		
Reverse percentage problems		
Compound interest and depreciation		
Ratio (sharing in a given ratio)		
Proportion (including recipe questions and value for money)		
Direct and inverse proportion		
Similar shapes (linear/area/volume scale factors)		
Factors, multiples and primes (including LCM and HCF)		
Powers/Indices (negative/fractional) and reciprocals		
Rounding and estimating to decimals/significant figures		
Standard Form		
Bounds including calculations		
Compound measures		
Exchange rates		
Surds		
Iteration		

Statistics, Geometry & Probability

Topic	Mathswatch?	Corbett maths?
Averages & range		
Averages from frequency tables		
Pie Charts		
Stem and Leaf Diagrams		
Frequency polygons		
Scatter Diagrams		
Stratified Sampling		
Cumulative Frequency Diagrams		
Box Plots		
Histograms		
Angles in Parallel Lines		
Angles in Polygons		
Areas and Perimeters of 2D Shapes (including circles)		
Volumes of cuboids and prisms		
Transformations including reflection, rotation, translation		
Enlargements (negative/fractional)		
Vector notation		
Pythagoras' Theorem		
Probability Tree Diagrams		
Experimental and theoretical probability		
Venn Diagrams		
Nets, plans and elevations		
Surface area of 3D shapes (including pyramids)		
Circle theorems		
Trigonometry (right angle including 3D)		
Trigonometry (sine rule, cosine rule, area of a triangle)		
Congruency proof (triangles)		

Science
Exam board: Edexcel (Pearson)
All pupils will sit a Biology 1; Chemistry 1 and a Physics 1 paper for their mocks.

The topics that need to be revised are below:
Combined science group (each paper: 1hour 10 mins)
Biology: topics 1-5
Chemistry : topics 1-4
Physics: topics 1-6

Year 10 Separate sciences (each paper: 1hour 45 mins)
Biology: topics 1-5
Chemistry : topics 1 -5
Physics: topics 1-7

All pupils have been given the specification points they need to learn. Further copies of the specification can be found using this link: GCSE science specifications

Questions to help with revision can also be found using the following link: Science revision questions

All pupils must make sure they bring their calculator to all of the science exams. If pupils still do not have their own they need to buy one from the maths department.

Geography
Which exam board?
In Geography we follow the **AQA** exam board.

What revision resources do students have?
- A Bishop Challoner Revision booklet was given to students at the start of the year. This includes summarised knowledge organisers for every topic, exam advice and banks of practice exam questions.
- A checklist for each unit of work
- The recommended revision guide for the AQA exam.
- Class notes and booklets.

Additional Resources students could access at home or in the school library:
- AQA BBC Bitesize for GCSE Geography

What are the best ways for students to revise Geography?
- Summarising key content or concepts (flash cards, mind mapping topics, bullet pointed notes).
- Practising exam questions. All students now have banks of questions in which have been carefully planned to meet the requirements of the course. If students are in a position to answer all of these questions by May then they will be in a very strong position.
- Testing one another verbally or by a parent / carer. Going through the revision checklists or using the knowledge organisers students could test one another on key content. This is particularly useful for helping remember key facts for case studies.

What topics are covered in year 10 and 11?

The Mock Exam: 13th June PM 90 minutes in the auditorium.
Units Tested:
- The Living World (Hot Deserts and Tropical Rainforests)
- Urban Issues and Challenges
- Physical Landscapes in the UK (Coasts and Rivers)

Year 10 Revision Checklist

The Living World

Topic	Tick
What is an ecosystem?	
What are biotic and abiotic components in an ecosystem?	
What is a producer?	
What is a consumer?	
What is a decomposer?	
What is a food chain	
What is a food web?	
What is nutrient cycling? (can you draw a diagram showing the cycle)	
How can an ecosystem be impacted by physical changes?	
How can an ecosystem be impacted by human changes?	
Can you describe the distribution of global ecosystems?	
Can you describe the characteristics of major global ecosystems?	
What are the physical characteristics of a tropical rainforest?	
What is biodiversity and why is the rainforest the most biodiverse ecosystem in the world?	
Why are soils, climate, water plants and animals independent to one another in a rainforest?	
How have plants adapted to conditions in the rainforest?	
How have animals adapted to conditions in the rainforest?	
How are rates of deforestation changing around the world?	
Case Study: Malaysia Rainforests: Causes of deforestation (palm oil, logging, road building, mineral extraction, energy development, settlement, population growth)	
Case Study: Malaysia Rainforests: Impacts of deforestation (economic development, soil erosion, biodiversity impact, contribution to climate change).	
Why are tropical rainforests valuable to people and the environment?	
How can rainforests be managed sustainably? (selective logging and replanting, conservation and education, ecotourism, international agreements for hardwood, debt reduction).	
What are the physical characteristics of a hot desert?	
Why is there interdependence between climate, water, soils, plants animals and people in the desert?	
How have plants adapted to the physical conditions of the hot desert?	
How have animals adapted to the physical conditions of the hot desert?	
Why is the desert not a very biodiverse ecosystem?	
Case Study Thar Desert in India/Pakistan: What are the opportunities for development? (mineral extraction, energy, farming, tourism)	
Case Study Thar Desert What are the challenges for development? (extreme temperatures, water supply, inaccessibility).	
What are the causes of desertification? (climate change, population growth, removal of fuel wood, overgrazing, over cultivation and soil erosion)	
How can desertification risk be reduced? (water and soil management, tree planting, magic stones, use of appropriate technology).	

Media

Adverts - Quality Street and This Girl Can

Film posters and industry - Both Bond units

Sitcoms - IT Crowd and Friends

Magazines - Pride and GQ

Product Design

AQA GCSE Design and Technology mock 2018

One paper – Two hours covering multiple choice, two – eight mark questions. Section A includes the core technical principles, section B includes the specialist technical principles, which should be applied to timbers. Section C includes designing and making principles.

Preparation

The best way to revise for your GCSE in Design and Technology is to revise each the core material areas, which could be done through the use of flash cards provided throughout lessons and will be in your folders. You will also need to focus on the core technical principles, which should be applied to timbers. This information will also be found in your folders. The final section of the exam covers design principles, which has been covered throughout the non-examined assessment lessons this term. The most successful students are those that start revising early.

Pay particular attention to assessment feedback in lessons, and note down topics that you lost marks on. Students will be provided with a revision check list and additional resources. We recommend the 'AQA GCSE (9-1) Design and Technology' revision guide, which is available online.

Support

Pass assessments and practice exam questions will be available from the Design and Technology teachers as follows:
Mrs Dane – e.dane@bishopchalloner.bham.sch.uk
Miss Conroy – r.conroy@bishopchalloner.bham.sch.uk

Materials and their working properties:

Paper and board	Natural and manufactured timber	Polymers
Alloys	Composites	Smart materials
Textiles	Technical textiles	Types of energy and storage
Sustainability and the environment	Mechanical devices	CAD/CAM
Culture	Inputs and outputs	Enterprise and crowdfunding
6'Rs	Forces and stresses	Joints (finger/dowel, lap, butt)
Drilling, shaping, finishing timber		

French

What to study for your french gcse exam?

Revision guides are available to purchase; £3 each, please speak to Mrs Mazabraud. All topics, plus extra resources are available on **http://frenchbc.weebly.com/year-10.html**

Tips

Revision cards for listening and reading

Create yourself some revision cards/ sheets with key phrases and vocabulary from each Unit. Write the English at the back and learn how to say and spell them.

Struggling with listening skill?

When completing a listening task on Kerboodle, also look at the transcript as you are listening to it, to help you getting used to the French sounds.

Mastering the tenses

Make sure you know how to put any verb in different tenses (perfect, imperfect, present, near future, simple future and conditional)
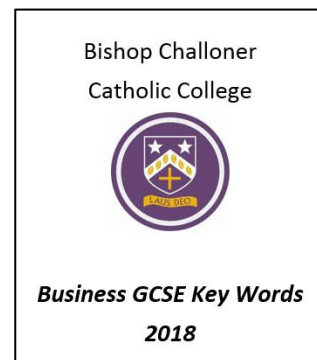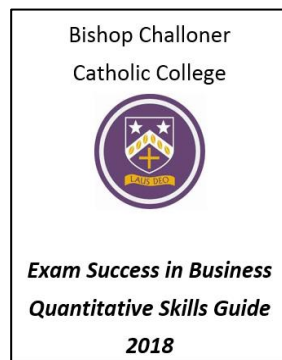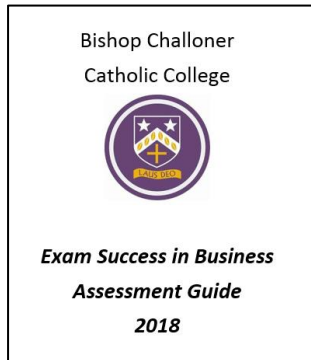
Resources

www.kerboodle.com > interactive listening and reading activities per topic to practise. You also have access to the Higher and Foundation textbook, with all the vocabulary lists. If you have forgotten your login details, email your teacher to ask them to reset them.

- www.quizlet.com > learn and revise vocabulary, this will help you to use more complex structures in you speaking and writing and help you with your reading and listening.
- www.frenchbc.weebly.com> the main blog page gives you the list of themes and topics to study, and a list of questions that you can work with to prepare for the speaking exams
- https://revisionworld.com/gcse-revision/french > this websites contains activities to help you revise per topics, as well as past papers.
- different tenses and tests you on them with interactive activities.

11Afr1, Mr Paillette: c.paillette@bishopchalloner.bham.sch.uk
11Afr2, Mr Davison w.davison@bishopchalloner.bham.sch.uk
11Afr3, Miss Mazabraud c.mazabraud@bishopchalloner.bham.sch.uk

Business Studies

All pupils in year 10 have the following documents in their folders at school. Pupils should take these documents home and use them to revise. The first two documents are full of worked examples, that show clearly the way the different types of questions should be answered. All 'command' words are included and matched to the marks available for each style of question. The key words document has all the main subject specific words included with their definitions.

Bishop Challoner Catholic College	Bishop Challoner Catholic College	Bishop Challoner Catholic College
Exam Success in Business Assessment Guide 2018	*Exam Success in Business Quantitative Skills Guide 2018*	*Business GCSE Key Words 2018*

In addition to the documents above pupils can purchase a revision guide priced at £2.75 (normal price £5.95) from school.

Students have a number of pieces of assessed work and model answers that they can use to go over their prior learning; as well as the work they have carried out in lessons. These are available for pupils take home.

If students have any questions with approaches to revision, topics they are having difficulty with, they are always welcome to talk to Mr Woodbridge and Miss Sadler at any time.
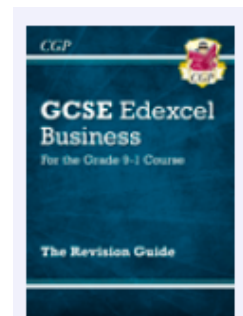
Computer Science	**ICT**
Binary/Hexadecimal representation	The phases of the project Lifecycle
Systems Architecture(CPU)	The advantages of following a project lifecycle
RAM and ROM	Inputs and outputs of each phase
3 types of Storage(Optical, Magnetic, SSD)	Legislative implications when starting a project
Computing Legislation	Testing during the Project Lifecycle
Variables/Constants	Smart Goals
Operators	Planning Tools(Gantt Charts/Pert charts/Flow Charts and Mind map)
If statements	Contingency and Mitigation during projects
Iteration	Advantages and Disadvantages of planning Tools
Flowchart	Software tools used when creating planning tools
Pseudocode	initiation of a project
Searching algorithms (binary & linear)	Mock-ups and Wireframes
Sorting algorithms (bubble, merge and insertion)	Test plans
Data types	Recording testing
Boolean logic	Data to use when testing
Translators (compiler, interpreter and assembler)	types of Testing
Arrays	