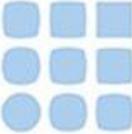




Year 11 Exam Preparation Booklet 2018-2019

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What is this booklet for?

As our Year 11 students are fast approaching their final examinations in the summer term, it is vital that they are fully equipped with all the necessary knowledge and skills.

A large part of this success will be down to how effectively they manage their time, and implement an effective revision programme, in the run up to the summer examinations. Learning how to revise effectively is a key part of this.

This is where we all come in. Working together to support the students with their revision. Parents/Carers may find it difficult to support their children through this time. This booklet provides you with advice, tips, key dates and techniques that may help you with this support.

Formal GCSE written examinations begin on Monday 13th May 2019 and run until Friday 21st June, 2019. Details regarding the final dates and expectations of students during this period will be sent out at the beginning of the summer term.

What is the WMG Academy Solihull doing to support your child?

- Taught lessons that cover the syllabus
- Intervention and support/catch up lessons
- Study skills sessions (revision timetable planning)
- Pastoral support (key stage 4 Pastoral Lead is Mr. Bain)
- Resources bought in (online)
- Practice examination papers
- Work closely with teachers to support behaviour
- Monitor attendance and punctuality
- Tutor time support
- Study revision guides
- Email/contact home

What can you do to support your child?

The good news is that you don't need to be an expert in any of the subjects your child chooses to make a real difference. You also don't need to give up your life and other responsibilities – you just need to know how best to spend the time you do have.

One of the hardest demands on students is that of understanding the long-term importance of doing the best they can, and learning to shelve short-term fun at times in the interest of long-term benefits (not easy even for adults). Children will also differ in their levels of maturity, their ability to take responsibility for their learning, organisational skills and levels of motivation.

This is where parents come in. Your support, encouragement and interest can make a spectacular difference to your child's motivation and ability to cope with the academic and organisational demands of the exam period.

KEEPING THE MOTIVATION UP FOR PARENTS

1. Agree the balance between work and social life and stick to the agreement. Again, flexibility is the key – if a special night comes up, agree that they can make up the work at a specified time.
2. All students fall behind, feel demotivated or overwhelmed, or struggle with the balance of social, work and school demands at times. When your child feels like this, berating and threatening them will have a negative effect. Talk to them about the issues, acknowledge their feelings and adopt a sensible attitude in wanting to find a solution.
3. Be flexible – use the 80/20 rule. If your child is sticking to what they are supposed to be doing 80% of the time, they will be doing alright.
4. If your child asks for your support, encourage them by helping them to see the difficulties in perspective. Teenagers often take an all or nothing ‘catastrophic’ approach to difficulties – “I’ve messed up this essay, I might as well give up.

Hints for an Ideal Revision Area

providing some of these will go a long way to helping your child...



Top Revision Tips

1. Plan ahead and start early to avoid freaking out

Start early to avoid cramming later. Once you've got your exam dates work backwards to plan your revision well ahead of time. The longer you give yourself the less pressure you'll be under throughout the exams and you'll have time to focus, get help and go over all you need to know. Remember with most of the examinations at the end of the course, students will need to constantly revisit material and not rely on 'cramming' at the end.

2. Create a Revision Timetable

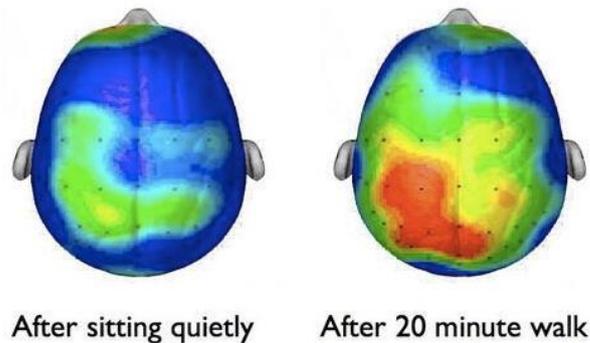
Building a revision timetable can add structure to your revision and help you **identify which GCSE subjects you need to prioritise to get better marks**. Creating a revision timetable is a great way to organise your study time, plus it also helps boost your motivation to revise for your exam

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
7:00-8:00					
8:00-9:00	ENG LANG	TAEKWANDO	MATH	LIT	ENG LANG
9:00-10:00	SCIENCE	LIT	ENG LANG	MATH	ART
10:00-10:30	B	R	E	A	K
10:30-11:30	SPANISH	SOC STUD	MATH	SOC STUD	LIT
11:30-12:30	MATH	SPANISH	DRAMA	SCIENCE	TAEKWANDO
12:30-1:00	L	U	N	C	H
1:00-2:00	WORLD LESSON	ART	MIND MAPPING	STUDY SKILLS	
2:00-3:00		CRITICAL THINKING	IT	IT	
3:00-4:00					
4:00-5:00					

3. Take Regular Study Breaks

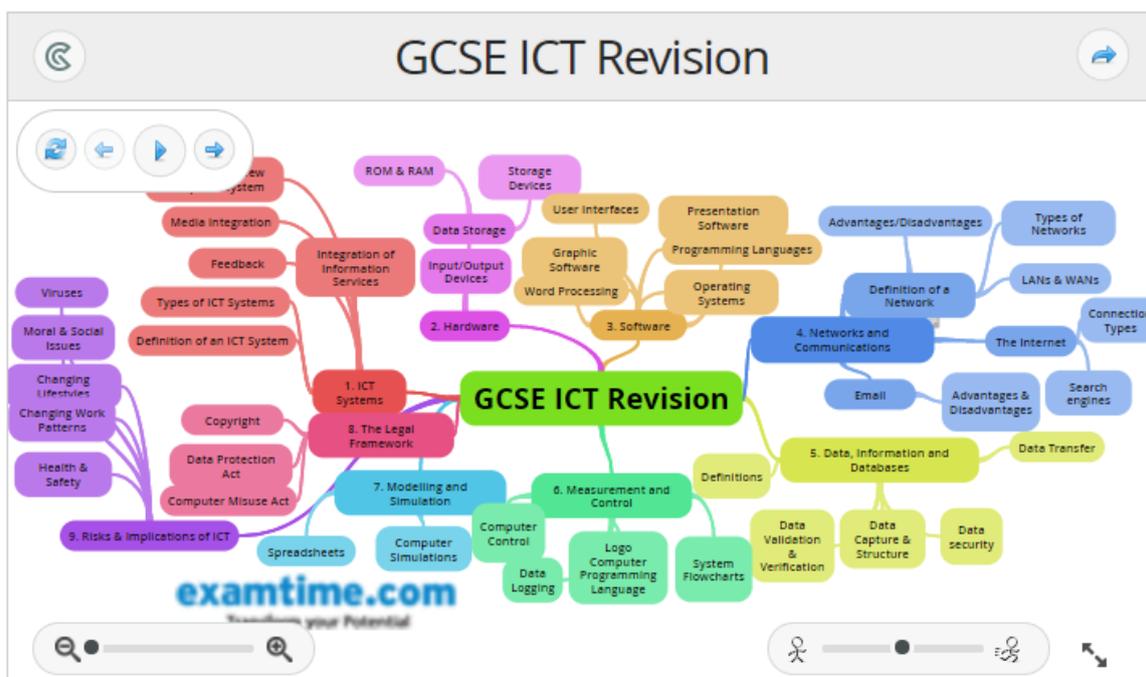
Do you feel stressed, tired and that no new information is entering your head? There is no point forcing yourself to study for hours upon hours as this will not result in a positive outcome. Taking regular study breaks and exercising is proven to engage your brain in studying and improve your exam performance in the long-run.

Composite of 20 student brains taking the same test



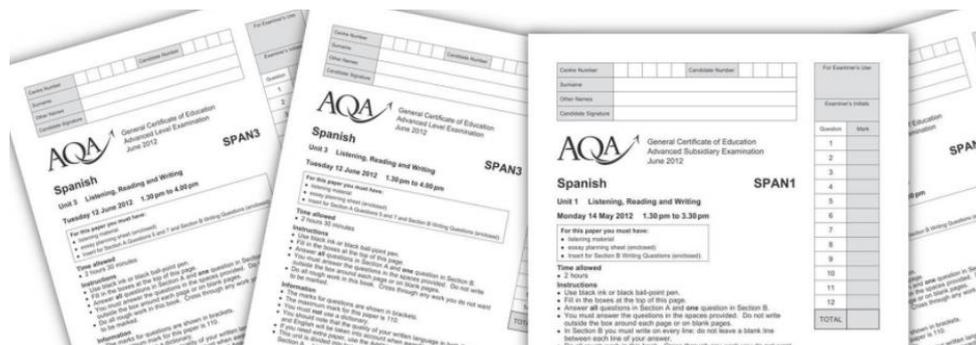
4. Use Mind Maps to Connect Ideas

If you find it difficult to remember tons of new study notes, Mind Maps may be the key to improving your memory. The theory behind mind mapping explains that making associations by connecting ideas helps you to memorise information easier and quicker.



5. Practice, Practice, Practice

One of the biggest recommendations that past GCSE students recommend is to **do as many GCSE past papers as you can**. Practising past papers will help you get familiar with the exam format, question style, time pressure and overall improve your ability to retrieve information quicker



6. Variety is the Spice of Life!

Mix up your study habits and methods by listening to **podcasts, watching videos or documentaries, moving to new study area or even something as simple as using different colours for your study notes**.

This is different to the other GCSE revision tips mentioned here as it encourages you to try a few different things to see what fits for you. Your brain will recall where you were or how you revised for a topic which will help you remember more information. Give it a go

7. Adapt for Different GCSE Subjects

It may seem obvious but many students try to study for different subjects using the same study methods. **Your GCSE revision should take account of the difference between your subjects and the challenges they represent.**

For example, Flashcards are an ideal study aid to help you prepare for a Spanish, French, German and exam such as GCSE Science where you need to remember key definitions. An Online Quiz is a great way to test your GCSE Maths skills while you would highly benefit from using a Note to study English

8. Teach friends or family

Teaching others is perhaps one of the best ways to actually revise and learn yourself. Get with a group of friends and see who needs help on what topics and teach each other or as a group. You can also grab a friend or family member who doesn't do your course and give them a lesson to help your revision

9. Watch some videos

Don't just read notes or revision books, get interactive by watching videos too. There's no doubt a YouTube channel dedicated to revision notes on your course!

10. Make flash cards

Flash cards are bitesize revision notes that you can look at and refer back to in a bid to make things sink in. Even if you don't actually use them that often, the process of making them is itself helpful in helping your memory.



11. Find your golden time

Figure out when you're most productive and schedule your revision then. It will vary from person to person.

12. Prioritise

Organise your revision time so that you focus more on your troublesome topics and tough subjects. You don't need to waste time going over areas that you already know inside out.

13. Know the syllabus

Make sure you know exactly what it is you'll be tested on. For the same subject there may be various exam boards and even various exams offered by the same board so it's not always straight forward: You don't want to be revising for questions and topics you'll never be tested on! If in doubt, ask your teacher or tutor.

What do the new grades mean...?

By now I am sure you are all aware the grading system has changed.

- The first new exams for GCSE Maths and English took place in summer 2017 and the new GCSE Science exams took place in summer 2018.
- There's no Foundation Level in the new English GCSEs — students of all abilities will take the same exams.

The government's definition of a 'good pass' will be set at grade 5 for reformed GCSEs.

What else has changed?

- Course content will be more demanding across all subjects. For example, in English language candidates will be required to read a greater range of challenging texts from a variety of periods.
- The majority of subjects will be assessed solely through exams taken at the end of two years of study (ie no controlled assessments or coursework).
- 'Tiering' will be dropped in most subjects. This means that for most courses, all candidates will sit the same paper, rather than opting for a foundation or higher paper according to their ability. The main exception to this is maths and science, although it is worth noting that a lot of content previously only included in the maths higher paper will now also be tested at foundation level.

Changes in GCSE Combined Science

- Students do 16 practical activities covering specific apparatus and techniques
- Exam questions about practical work make up at least 15% of the total marks for the qualification
- As with all reformed GCSE's the content is more challenging than previous A*-G GCSE Grades

Ofqual

New GCSE grading structure

New grading structure	Current grading structure
9	A*
8	A
7	A
6	B
5	B
4	C
3	D
2	E
1	F
1	G
U	U

GOOD PASS (DfE)
5 and above = top of C and above

AWARDING
4 and above = bottom of C and above

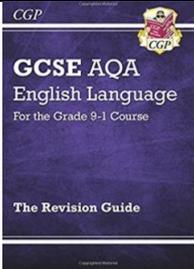
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GCSE COMBINED SCIENCE

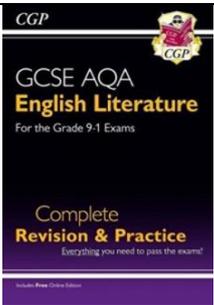
DOUBLE AWARD GRADE COMBINATIONS

9	9	9	8
8	8	8	7
7	7	7	6
6	6	6	5
5	5	5	4
4	4	4	3
3	3	3	2
2	2	2	1
1	1	2	U

English Language

Exam board	AQA	Exam year - 2019
Link to specification - http://www.aqa.org.uk/subjects/english/gcse		
Syllabus Code	8700	
Content/unit	Assessment method	Weighting
Exam one	section A - Response to literature text	50%
Exam two	section B - Writing a descriptive or narrative piece.	50%
Speaking and Listening	Section A - non-fiction texts Section B - Creating a journalistic text defending a viewpoint Tested throughout the course	Does not count towards the final exam
English specific exam techniques	<ul style="list-style-type: none"> • Read a newspaper, magazine or book online or in print each day. Much of GCSE English is reading based and reading each day will improve vocabulary, spelling and punctuation • Use of a dictionary and a thesaurus when writing at home or in school. This will improve spelling and widen vocabulary. <ul style="list-style-type: none"> • Students should get into the habit of writing a plan before an extended piece of writing. This improves the structure and allows the student to write an effective conclusion or ending • Students should become self – critical, re reading their work before submitting it and checking for spelling, punctuation and grammar errors. • Improve presentation and handwriting where needed. Examiners cannot mark work if the meaning is unclear. • In order to demonstrate that they can write effectively and extend their ideas in Standard English, students should use practice papers and mark their work using the appropriate mark scheme. • In time, students should practise writing against the clock so that they maximise the time available in the examination, answering questions as fully as possible. 	
Recommended revision guides		
Useful websites for revision	www.bcbitesize.co.uk www.sparknotes.com www.englishbiz.co.uk	
Past papers	http://www.aqa.org.uk/exams-administration/exams-guidance/find-past-papers-and-mark-schemes	

English Literature

Exam board	AQA	Exam year 2019
Syllabus Code	8702	
Link to specification - http://www.aqa.org.uk/subjects/english/gcse		
Content/unit	Assessment method	Weighting
Exam one	Section A - Shakespeare Section B - 19 th Century Novel	40%
Exam two	Section A – Modern Play or Novel Section B – studied Poems Section C – Response to two unseen poems	60%
English specific exam techniques	<ul style="list-style-type: none"> ● Gather your materials as early as possible. ● Find and examine the specification ● Take notes on everything you study. ● Summarize texts as you read them. ● Highlighting the most important details in your notes ● Analyse poems. During your lessons when you analyse poems, write down as many notes as possible! ● Prepare for the unseen poetry section by analysing new poems as much as possible ● Consult other sources for more information. ● Make flash cards ● Test your knowledge. A way to check this is to teach your family, friends or classmates about the texts without referring to your notes. ● Write practice exam papers. ● 	
Recommended revision guides		
Useful websites for revision	http://www.bbc.co.uk/schools/gcsebitesize/english_literature/ www.sparknotes.com www.englishbiz.co.uk http://www.s-cool.co.uk/gcse/english	
Past papers	http://www.aqa.org.uk/exams-administration/exams-guidance/find-past-papers-and-mark-schemes	

Science (Combined Science)

Exam board	OCR Gateway Combined Science A (9-1)	Exam year 2019
Syllabus Code	J250	
Link to specification http://www.ocr.org.uk/Images/234596-specification-accredited-gcse-gateway-science-suite-combined-science-a-j250.pdf		
Content/unit	Assessment method	Weighting
B1, B2 and B3 and CS7 (Practical skills)	Paper 1 (1 hr 10mins)	16.7 %
B4, B5, B6 and CS7	Paper 2 (1 hr 10mins)	16.7 %
C1, C2, C3 and CS7	Paper 3 (1 hr 10mins)	16.7 %
C4, C5, C6 and CS7	Paper 4 (1 hr 10mins)	16.7 %
P1, P2, P3 and CS7	Paper 5 (1 hr 10mins)	16.7 %
P4, P5, P6, and CS7	Paper 6 (1 hr 10mins)	16.7 %
Subject specific exam techniques	<ul style="list-style-type: none"> • Making notes and recordings from the Kerboodle textbook and additional resources • Highlight notes – colour co-ordinate • BBC Bitesize Science interactive videos • Make a quiz – make a card matching game • Past paper questions (from the legacy examination papers) • Mind maps / posters • Flash cards • Post it notes • Work in groups – mark each other’s work 	
Recommended revision guides	<p>New Grade 9-1 GCSE Combined Science: OCR Gateway Revision Guide with Online Edition - Higher/Foundation</p> <p>New Grade 9-1 GCSE Combined Science: OCR Gateway workbook – Higher/Foundation</p>	
Useful websites for revision	<p>http://www.bbc.co.uk/education/subjects/zrkw2hv http://www.docbrown.info/gcscscience.htm https://www.youtube.com/user/myGCSEscience/videos</p>	
Past papers	<p>Legacy papers available at: http://www.ocr.org.uk/qualifications/gcse-gateway-science-suite-science-b-j261-from-2012/</p>	

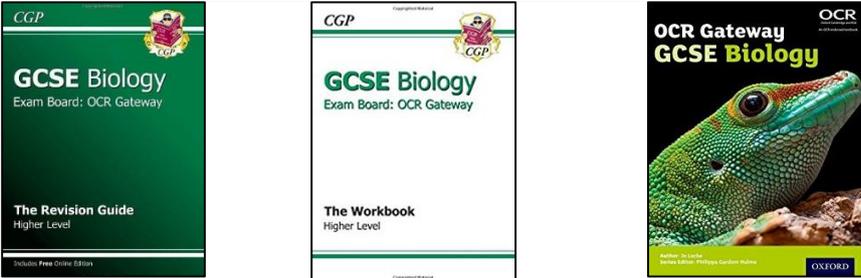
Chemistry (Triple Science only)

Exam board	OCR Gateway Triple Science A Chemistry(9-1)	Exam year 2019
Syllabus Code	J248	
Link to specification http://www.ocr.org.uk/Images/234598-specification-accredited-gcse-gateway-science-suite-chemistry-a-j248.pdf		
Content/unit	Assessment method	Weighting
C1, C2, C3 and CS7	Paper 1 (1 hr 45mins)	50%
C4, C5, C6 and CS7	Paper 2 (1 hr 45mins)	50%
Subject specific exam techniques	<ul style="list-style-type: none"> • Making notes and recordings from the Kerboodle textbook and additional resources • Highlight notes – colour co-ordinate • BBC Bitesize Science interactive videos • Make a quiz – make a card matching game • Past paper questions (from the legacy examination papers) • Mind maps / posters • Flash cards • Post it notes • Work in groups – mark each other’s work 	
Recommended revision guides	New Grade 9-1 GCSE Chemistry: OCR Gateway Revision Guide with Online Edition	
Useful websites for revision	<ul style="list-style-type: none"> • http://www.bbc.co.uk/education/subjects/zrkw2hv • http://www.docbrown.info/gcscscience.htm • https://www.youtube.com/user/myGCSEscience/videos 	
Past papers	Legacy papers available at: http://www.ocr.org.uk/qualifications/gcse-gateway-science-suite-science-b-j261-from-2012/	

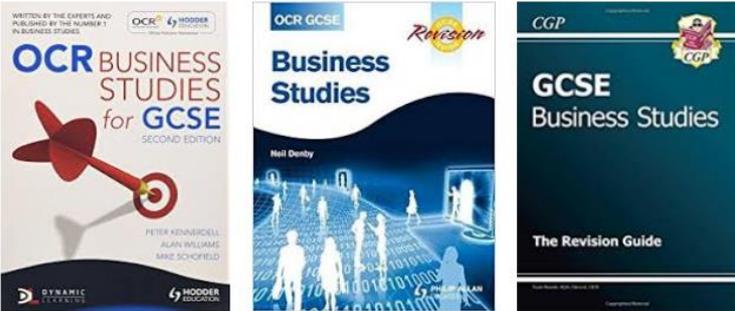
Physics (Triple Science only)

Exam board	OCR Gateway Triple Science A Physics(9-1)	Exam year 2019
Syllabus Code – J249		
Link to specification http://www.ocr.org.uk/Images/234600-specification-accredited-gcse-gateway-science-suite-physics-a-j249.pdf		
Content/unit	Assessment method	Weighting
P1,P2,P3,P4 and P9	Paper 1 (1 hr 45mins)	50%
P5,P6,P7,P8 and P9	Paper 2 (1 hr 45mins)	50%
Subject specific exam techniques	<ul style="list-style-type: none"> • Making notes and recordings from the Kerboodle textbook and additional resources • Highlight notes – colour co-ordinate • BBC Bitesize Science interactive videos • Make a quiz – make a card matching game • Past paper questions (from the legacy examination papers) • Mind maps / posters • Flash cards • Post it notes • Work in groups – mark each other’s work 	
Recommended revision guides	New Grade 9-1 GCSE Chemistry: OCR Gateway Revision Guide with Online Edition	
Useful websites for revision	http://www.bbc.co.uk/education/subjects/zrkw2hv http://www.docbrown.info/gcscscience.htm https://www.youtube.com/user/myGCSEscience/videos	
Past papers	Legacy papers available at: http://www.ocr.org.uk/qualifications/gcse-gateway-science-suite-science-b-j261-from-2012/	

Biology (Triple Science only)

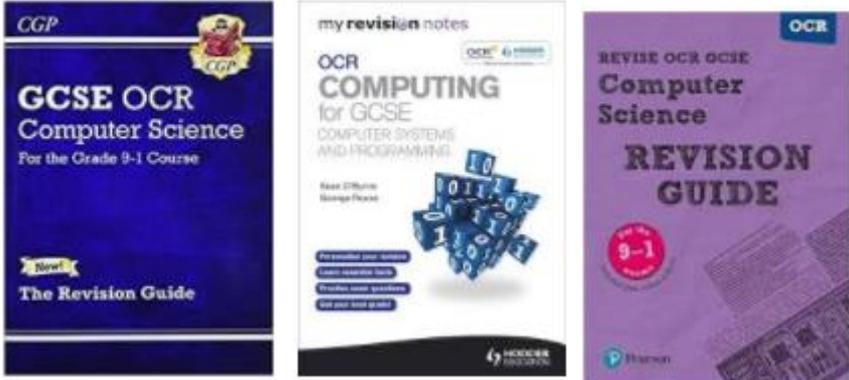
Exam board	OCR Gateway Triple Science A Biology (9-1)	Exam year 2019
Syllabus Code – J249		
Link to specification http://www.ocr.org.uk/Images/234594-specification-accredited-gcse-gateway-science-suite-biology-a-j247.pdf		
Content/unit	Assessment method	Weighting
B1,B2,B3 and B7 B4, B5,B6,and B7	Paper 1 (1 hr 45mins) Paper 2 (1 hr 45mins)	50% 50%
Subject specific exam techniques	<ul style="list-style-type: none"> • Making notes and recordings from the Kerboodle textbook and additional resources • Highlight notes – colour co-ordinate • BBC Bitesize Science interactive videos • Make a quiz – make a card matching game • Past paper questions (from the legacy examination papers) • Mind maps / posters • Flash cards • Post it notes • Work in groups – mark each other’s work 	
Recommended revision guides		
Useful websites for revision	<ul style="list-style-type: none"> • http://www.bbc.co.uk/education/subjects/z9ddmp3 • http://www.docbrown.info/gcsescience.htm • https://www.youtube.com/user/myGCSEscience/videos • http://www.s-cool.co.uk/gcse/biology • https://studywise.co.uk/gcse-revision/ • http://www.docbrown.info/gcsebiology.htm 	
Past papers	Legacy papers available at: http://www.ocr.org.uk/qualifications/gcse-gateway-science-suite-science-b-j261-from-2012/	

Business Studies

Exam board	OCR Business Studies	Exam year 2019
Syllabus Code – J204		
Link to specification http://www.ocr.org.uk/Images/71415-specification.pdf		
Content/unit	Assessment method	Weighting
Unit A291 Marketing and enterprise	Controlled Assessment Approx 16 hours 60 marks Students select one of the two controlled assessment tasks made available by OCR	25% of total GCSE
Unit A292 Business and people	Written paper 1 hour 60 marks Question paper: 2 short answer data-response questions	25% of total GCSE
Unit A293 Production, finance and the external business environment	Written paper 1 hour 30 mins 90 marks Question paper: 3 questions based on a pre-released case study	50% of total GCSE
Subject specific exam techniques	<ol style="list-style-type: none"> 1. Print off the specification and use actively during revision 2. Use a revision checklist 3. Practice writing detailed answers to long-answer questions 4. Flashcards 5. Create mind maps 6. Use YouTube videos on exam paper question walkthroughs 	
Recommended revision guides		
Useful websites for revision	http://www.crispins.co.uk/business-economics/gcse-business-studies-yr1011/ https://revisionworld.com/gcse-revision/business-studies http://www.bbc.co.uk/education/subjects/zpsvr82	
Past papers	https://revisionworld.com/gcse-revision/business-studies/business-studies-gcse-past-papers/ocr-gcse-business-studies-past-papers http://www.fastpastpapers.com/GCSE_OCR_Business_Studies.html	

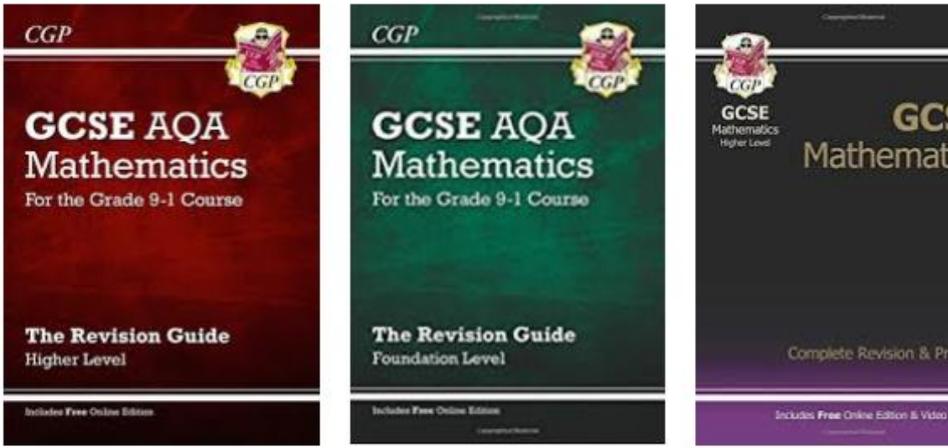
Computer Science

Exam board	OCR Computer Science (9-1)	
Syllabus Code – J276		
Link to specification: http://www.ocr.org.uk/Images/225975-specification-accredited-gcse-computer-science-j276.pdf		
Content/unit	Assessment method	Weighting
Computer systems <ul style="list-style-type: none"> • Systems Architecture • Memory • Storage • Wired and wireless networks • Network topologies, protocols and layers • System security • System software • Ethical, legal, cultural and environmental concerns 	<p>Computer systems (01) 80 marks 1 hour and 30 minutes Written paper (no calculators allowed)</p>	40% of total GCSE
Computational thinking, algorithms and programming <ul style="list-style-type: none"> • Algorithms • Programming techniques • Producing robust programs • Computational logic • Translators and facilities of languages • Data representation 	<p>Computational thinking, algorithms and programming (02) 80 marks 1 hour and 30 minutes Written paper (no calculators allowed)</p>	40% of total GCSE
Programming project <ul style="list-style-type: none"> • Programming techniques • Analysis • Design • Development • Testing and evaluation and conclusions 	<p>Programming project (03/04) 40 marks Totalling 20 hours Non-Exam Assessment (NEA)</p>	20% of total GCSE

<p>Subject specific exam techniques</p>	<ul style="list-style-type: none"> - Past paper exam questions - BBC Bitesize (http://www.bbc.co.uk/education/subjects/z34k7ty) - Past paper exam walkthrough videos: <ul style="list-style-type: none"> o https://www.youtube.com/watch?v=F27KHPBac7s o https://www.youtube.com/watch?v=X2ETbx7-mXk - OCR GCSE Computing Channel <ul style="list-style-type: none"> o https://www.youtube.com/channel/UC6xtROb0FvbKcK_7ByQg4-A - Codecademy.com – learn python programming
<p>Recommended revision guides</p>	
<p>Useful websites for revision</p>	<p>https://www.memrise.com/course/460627/ocr-gcse-computing-a451/ http://www.teach-ict.com/gcse_computing/ocr/GCSE_A451_topics.html https://computerscienceuk.com/gcse-9-1/6-a-day-revision/ https://mrocallaghanedu.wordpress.com/2014/05/10/gcse-computing-revision-materials/</p>
<p>Past papers</p>	<p>Unit J276/01 - http://www.ocr.org.uk/Images/226764-unit-j276-01-computer-systems-sample-assessment-materials.pdf Unit J276/02 - http://www.ocr.org.uk/Images/226630-unit-j276-02-computational-thinking-algorithms-and-programming-sample-assessment-materials.pdf</p>

Maths

Exam board	AQA GCSE MATHEMATICS	June 2019
Syllabus Code - 8300		
Link to specification: http://filestore.aqa.org.uk/resources/mathematics/specifications/AQA-8300-SP-2015.PDF		
Content/unit	Assessment method	Weighting
Paper 1: non-calculator	Written exam: 1 hour 30 mins 80 marks <ul style="list-style-type: none"> • Number • Algebra • Ratio, proportion and rates of change • Geometry and measures • Probability • Statistics 	33⅓% of the GCSE Mathematics assessment
Paper 2: calculator	Written exam: 1 hour 30 mins 80 marks <ul style="list-style-type: none"> • Number • Algebra • Ratio, proportion and rates of change • Geometry and measures • Probability • Statistics 	33⅓% of the GCSE Mathematics assessment
Paper 3: calculator	Written exam: 1 hour 30 mins 80 marks <ul style="list-style-type: none"> • Number • Algebra • Ratio, proportion and rates of change • Geometry and measures • Probability • Statistics 	33⅓% of the GCSE Mathematics assessment
Subject specific exam techniques	<ul style="list-style-type: none"> • Past paper exam questions • BBC Bitesize https://www.bbc.co.uk/education/examspecs/z8sg6fr • AQA GCSE Maths Revision Channel https://youtu.be/9Y05pw9jH3Q?list=PLxHVbvxhSvleS6TaN5EqyV0mu1W35t33KL • Exam paper preparation https://corbettmaths.com/2017/05/28/aqa-papers-2-3-predictions-2017/ 	

<p>Recommended revision guides</p>	
<p>Useful websites for revision</p>	<p>http://studymaths.co.uk/</p> <p>http://www.s-cool.co.uk/gcse/maths</p> <p>https://studywise.co.uk/gcse-revision/maths/</p> <p>http://www.mathsgenie.co.uk/gcse.html</p>
<p>Past papers</p>	<p>http://www.aqa.org.uk/exams-administration/exams-guidance/find-past-papers-and-mark-schemes</p>

Spanish

Exam board	Edexcel	GCSE Spanish
Link to specification https://qualifications.pearson.com/en/qualifications/edexcel-gcses/spanish-2016.html		
Content/unit	Assessment method	Weighting
1. Listening and understanding in Spanish	Examination	25%
2. Speaking in Spanish	Examination	25%
3. Reading and Understanding in Spanish	Examination	25%
4. Writing in Spanish	Examination	25%
Subject specific exam techniques	<p>Thorough revision of grammar required for GCSE Spanish with the completion of a grammar workbook.</p> <p>Exam techniques for all four disciplines – listening, speaking, reading and writing will be covered with frequent completion of exam-type questions.</p> <p>There will be frequent vocabulary tests covering words used in all 8 modules of the GCSE course.</p>	
Recommended revision guides	CGP : GCSE Edexcel Spanish for the 9 – 1 Course : The Revision Guide.	
Useful websites for revision	<p>Liberation Philology Spanish (App for mobile telephones - £2.99)</p> <p>This app allows students to test themselves on Spanish vocabulary and verb formations and tenses.</p>	
Past papers	None available – the first assessment will be in Summer 2018. However, students can use exam papers from the old specification.	

Product Design

Exam board	AQA	Exam Year 2019
Syllabus Code	8552	
<ul style="list-style-type: none"> Link to specification http://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-product-design-4555 		
Content/unit	Assessment method	Weighting
Unit 1: Written Paper (4555/1)	Exam - 2 hours 120 marks Candidates answer all questions in two sections .Pre-Release material issued	40% of total marks
Unit 2: Design and Making Practice (4555/2)	Controlled Assessment Task Approximately 45 hours 90 marks Consists of a single design and make activity	60% of total marks
Subject specific exam techniques	<ol style="list-style-type: none"> 1. Design Movements – knowledge of a range of designers 2. Designing and Design Criteria/Specification – 25% of the paper will test design skills 3. Understanding the Marking Scheme – learning how to read and answer the questions 4. Paper and Card – knowledge of all aspects of this material area is essential 5. Product Manufacture – how products are made at WVG and in industry 6. 6 Rs – Environment impact of products, carbon Footprint and social responsibility 7. Marketing – branding, patents, copyright and point of sale 8. Use of ICT in manufacturing – batch production/mass production as in the car industry/CIM 9. Human Factors – how designers use ergonomics and anthropometric data 10. Product Analysis – ACCESS FM/Testing/Disassembly of a range of products 	
Recommended revision guides	<ul style="list-style-type: none"> • Collins GCSE Essentials - Product Design: Revision Guide (ISBN: 978-1-906415-55-6) • Collins GCSE Essentials - Product Design: Revision Workbook (ISBN: 9781906415563) 	
Useful websites for revision	D&T: Product Design App by J Plimmer <ul style="list-style-type: none"> • www.technologystudent.com/ • www.gcsepod.com • http://www.bbc.co.uk/education/subjects/zybc87h • http://www.design-technology.org/ • http://www.design-technology.info/home.htm • http://manufacturing.stanford.edu/ 	
Past papers	Google Classroom- PD	

Art and Design

Exam board	AQA	
Syllabus Code - 8201		
Link to specification : http://filestore.aqa.org.uk/resources/art-and-design/specifications/AQA-ART-GCSE-SP-2016.PDF		
Content/unit	Assessment method	Weighting
Component 1: Portfolio	A portfolio that in total shows explicit coverage of the four assessment objectives. It must include a sustained project evidencing the journey from initial engagement to the realisation of intentions and a selection of further work undertaken during the student's course of study.	<ul style="list-style-type: none"> • 96 marks • 60% of GCSE
Components 2: Externally set assessment.	Students respond to their chosen starting point from an externally set assignment paper relating to their subject title, evidencing coverage of all four assessment objectives.	<ul style="list-style-type: none"> • 96 marks • 40% of GCSE
Subject specific exam techniques.	<ol style="list-style-type: none"> 1. Take any unfinished work home or attend after school to refine, finish and present work. 2. Complete any annotations or research during your own time, not during lesson time. This will give you a better chance to finish your practical work to a better standard. 3. Research artists that you are interested in, or artists that we are working on and bring it in ready for your lesson. (AO1-Assessment objective 1) 4. Spend some time at home practicing and experimenting with techniques that you have learnt to perfect and prepare for your lessons. (AO2-Assessment objective 2) 5. Take photos, or look through photos you already have of anything you think looks interesting and will fit into your project (Man Made Vs Nature), print them and bring them to your next lesson (AO3-Assessment objective 3). Edit your photos on any app available to show experimentation and bring all these to lesson. (Assessment objective 2) 6. Important: Start to think about what you want your final piece of artwork to be at the end of the project you have been working on. It can be a painting, drawing, 3D sculpture, photography/graphic based. You will need to have completed this before Christmas holidays begin. 	
Useful websites for revision	http://www.bbc.co.uk/schools/gcsebitesize/art/	
Past papers	http://www.aqa.org.uk/subjects/art-and-design/as-and-a-level/art-and-design-2200/past-papers-and-mark-schemes	

Geography	Exam board AQA	June 2019
Syllabus Code	8035	
Link to specification	http://www.aqa.org.uk/subjects/geography/gcse/geography-8035	
Content/unit	Assessment method	Weighting
Unit 1 - Living with the physical environment	Written exam: 1 hour 30 minutes 88 marks (including 3 marks for spelling, punctuation, grammar and specialist terminology (SPaG))	35% of GCSE
Challenges in the human environment	Written exam: 1 hour 30 minutes 88 marks (including 3 marks for spelling, punctuation, grammar and specialist terminology (SPaG))	35% of GCSE
Geographical applications	Written exam: 1 hour 15 minutes 76 marks (including 6 marks for SPaG)	30% of GCSE
Geographical skills	Pre-release resources booklet made available 12 weeks before Paper 3 exam	
Subject specific exam techniques	<p>In Geography will find a wide range of question types: multiple-choice, short answer, levels of response, extended prose. Questions range from 1 to 9 marks. There are often lots of questions based on statistics, data interpretation and looking for patterns. There will also be map work, the use of photos and diagrams to produce or complete. The following command words as found on the exam paper are below:</p> <p><u>Calculate</u> = Work out the value of something. <u>Compare</u> = Identify similarities and differences. <u>Describe</u> = Set out characteristics. <u>Discuss</u> = Present key points about different ideas or strengths and weaknesses of an idea. <u>Explain</u> = Set out purposes or reasons. <u>Give</u> = Produce an answer from recall. <u>Identify</u> = Name or otherwise characterise. <u>Outline</u> = Set out main characteristics. <u>Suggest</u> = Present a possible case.</p>	
Recommended revision guides	CGP – New Grade 9-1 GCSE Geography AQA Revision Guide (Available from reception)	
Useful websites for revision	BBC Bitesize http://www.bbc.co.uk/schools/gcsebitesize/geography/ Cool Geography http://www.coolgeography.co.uk/GCSE/AQA%20GCSE.htm S-Cool http://www.s-cool.co.uk/gcse/geography	
Past papers	AQA sample papers http://www.aqa.org.uk/subjects/geography/gcse/geography-8035/assessment-resources	

ENGINEERING MANUFACTURE

Exam Board	OCR		
Specification Name	Cambridge National		
Specification Code	R109/R110/R111/R112		
Link to specification	http://www.ocr.org.uk/qualifications/cambridge-nationals/cambridge-nationals-engineering-manufacture-level-1-2-award-certificate-j832-j842/		
Examination	Summer 2019		
Syllabus	R109	External Exam	Worth 25%
	<p>R109: Engineering materials, processes and production Students develop their understanding of a wide range of engineering materials and how their properties and characteristics impact on a design specification. They also examine different production processes and their applications.</p>		
	R110	Coursework	Worth 25%
	<p>R110: Preparing and planning for manufacture Students plan and apply appropriate processes to make pre-production product using hand-held tools, measuring and marking equipment safely. They then carry out a range of manually controlled machining operations and perform quality control checks to review their finished pre-production product.</p>		
	R111	Coursework	Worth 25%
	<p>R111: Computer aided manufacturing Students explore the role of computer applications in the design and manufacture of engineered products by creating computer-aided design (CAD) drawings to produce a batch of computer numerical control (CNC) manufactured examples of a product. They investigate methods used to compare items manufactured by manually controlled and CNC production, and develop their understanding of how computer control is used to produce engineered products in high-volume.</p>		
	R112	Coursework	Worth 25%
	<p>R112: Quality control of engineered products Students develop their knowledge and understanding of the techniques and procedures used, including 'lean processes' to ensure the quality of engineered products. They produce and implement a detailed set of procedures for the quality control of engineered products in a 'real world' situation involving high-volume manufacture of products.</p>		
Additional Support	<ul style="list-style-type: none"> Additional support and guidance is available through RM unify. 		
Useful areas for revision	<ul style="list-style-type: none"> Exemplar coursework portfolios located on RM unify. There are no revision guides available. 		

ENGINEERING DESIGN

Exam Board	OCR		
Specification Name	Cambridge National		
Specification Code	R105/R106/R107/R108		
Link to specification	http://www.ocr.org.uk/qualifications/cambridge-nationals/cambridge-nationals-engineering-design-level-1-2-award-certificate-j831-j841/		
Examination	Summer 2019		
Syllabus	R105	External Exam	Worth 25%
	<p>R105: Design briefs, design specifications and user requirements Students explore the requirements of design briefs and specifications for the development of new products and how consumer requirements and market opportunities inform these briefs. They develop their understanding of the design cycle, the requirements for a design brief and design specification, and the importance of research data in developing a design solution.</p>		
	R106	Coursework	Worth 25%
	<p>R106: Product analysis and research Students find out how to perform effective product analysis through both research and practical experience of product assembly and disassembly procedures. This helps them develop skills in critical analysis and an understanding and appreciation of manufacturing processes, design features, materials used and the principles behind good design.</p>		
	R107	Coursework	Worth 25%
	<p>R107: Developing and presenting engineering designs Students develop their knowledge and skills in communicating 2D and 3D design ideas, including effective annotation and labelling. They use detailed hand rendering as well as computer-based presentation techniques and computer-aided design (CAD) software.</p>		
	R108	Coursework	Worth 25%
	<p>R108: 3D design realisation Students produce a model prototype and test design ideas in a practical context. They evaluate the prototype against the product specification and consider potential improvements to features, function, materials, aesthetics and ergonomics in the final product.</p>		
Additional Support	<ul style="list-style-type: none"> Additional support and guidance is available through RM unify. 		
Useful areas for revision	<ul style="list-style-type: none"> Exemplar coursework portfolios located on RM unify. There are no revision guides available. 		

ENGINEERING - SYSTEMS AND CONTROL

Exam Board	OCR		
Specification Name	Cambridge National		
Specification Code	R113/R114/R115/R116		
Link to specification	http://www.ocr.org.uk/qualifications/cambridge-nationals/cambridge-nationals-systems-control-in-engineering-level-1-2-award-certificate-j833-j843/		
Examination	Summer 2019		
Syllabus	R113	External Exam	Worth 25%
	<p>R113: Electronic principles Students learn about the fundamentals of electronic circuits and how they relate to the design, maintenance and repair of electrical/electronic systems used in engineering products. They design, construct and test electronic circuits using appropriate techniques, procedures and equipment, including fault-finding and identifying potential electrical hazards.</p>		
	R114	Coursework	Worth 25%
	<p>R114: Simulate, construct and test electronic circuits Students develop their knowledge and understanding of the construction techniques and processes used in the manufacture of electronic and electrical circuits. They use computer-based simulation software to prototype and test the operation of circuits and produce designs for printed circuit boards (PCB). They also learn how to evaluate the performance of a simple electronic circuit.</p>		
	R115	Coursework	Worth 25%
	<p>R115: Engineering applications of computers Students consider how computer and microprocessor systems are used in a variety of engineering activities. This includes how engineering industries use Computer Aided Design (CAD) and Computer Aided Manufacture (CAM) to design and manufacture new products. Students also look at the use of systems such as Programmable Logic Controllers (PLC) and Programmable Interface Controllers (PIC) in automated manufacturing.</p>		
	R116	Coursework	Worth 25%
	<p>R116: Process control systems Students explore how different microprocessor and microcontroller control systems are used in a variety of domestic and commercial engineering contexts. They develop a practical understanding of how such control systems are designed, simulated and tested, and they solve design problems using appropriate sensor, transducer and programmable logic controllers (PLC) or programmable interface controllers (PIC).</p>		
Additional Support	<ul style="list-style-type: none"> Additional support and guidance is available through RM unify. 		

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