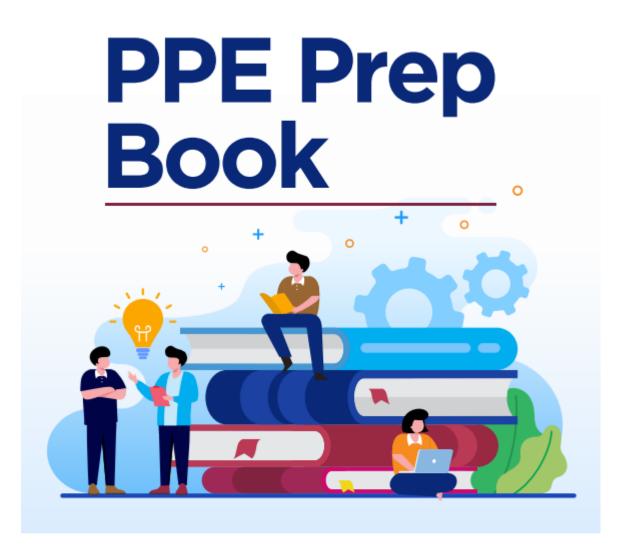
Year 11 Thornleigh Salesian College



November 2023



PPE Preparation information inside.

Subject	English Language
Number of	1
papers in the	
Mock series	
Material to be	Component 2 19th and 21st Century Non-Fiction Reading and
examined	Transactional/Persuasive Writing (2 hours).
	Section A Non-Fiction Reading This a comprehension paper that tests a variety of skills including selecting correct details from a text, commenting on a writer's ideas and methods, plus evaluation of viewpoints and comparison between texts from different historical periods. Students are required to demonstrate understanding of two unseen extracts (about 900-1200 words), one from the 19th Century and one from the 21st Century and assessment is based on a set of structured questions. Students are assessed on their ability to identify and interpret information, as well as their ability to understand how writer's use language alongside their ability to compare and evaluate texts.
	Section B - Writing Students are also required to complete two transactional/persuasive writing tasks. Across both tasks, students will be offered opportunities to write for a range of audiences and purposes, adapting their style to different forms and real-life contexts, for example in letters, articles, reviews and speeches. Students are assessed on their ability to communicate clearly, effectively and imaginatively as well as adapting their tone, style and register to different forms, purposes and audiences. They will also be assessed on their use of a range of vocabulary and sentence structures and their ability to spell and punctuate accurately.
Format of the examination	Examination paper- 2 hours (60 mins Reading/60 mins Transactional Writing).
Revision strategies for this subject	A revision guide is available online and in some larger book shops: WJEC Eduqas GCSE English Language Student's Book by Susan Basham and Jamie Rees. ISBN - 147183185X. or GCSE English Language WJEC Eduqas Revision Guide - for the Grade 9-1 Course (CGP GCSE English 9-1 Revision) ISBN - 1782943714 • All revision resources, including past and sample papers, will be available on Google Classroom. • Use of SAM Learning, GCSE POD and BBC Bitesize.
	Use the online revision booklet that has past papers in it provided by the English Department listed as 'Component 2' (on Google Classroom and your teacher may also have shared it with you). The questions follow the same structure on all the papers: the first two questions are on the modern text; the second two questions are on the pre-1900s historical text and the final two questions are asking you to compare both texts. Remember the 'odd' numbered questions are all effectively testing the skill of 'locating and retrieving information' (this includes question 5 which is usually requiring you to simply identify two details from each text and briefly listing these details in a short paragraph). The 'even' number questions

are all effectively testing the skill of selecting the correct information and briefly commenting on each detail using the words in the question. This is really the same for the 'comparison' question (number 6): whilst it appears quite complicated, it is actually fairly straightforward if you find the correct details from both texts and then do a paragraph on each text. You just need to ensure that you select the correct details for all these question (the most common problem is that students do not do this), briefly explain them by using the words in the question to comment and then cover enough for 10 marks (10 marks = 1 page of writing). Timings can also be an issue: remember, it's a mark per minute plus 2 or 3 mins to find the correct information first. Stick to the time limit and ensure you answer all the questions! For transactional writing, look at the revision booklet that has examples of Grade 5 and 8 answers in it provided by the English Department on Google Classroom as well as being shared by your class teacher. Practise writing for different audiences and purposes and practise writing letters, speeches, articles, reviews and reports. The key is to ensure you are writing to the correct audience and that you adapt your language to that audience, ensuring you give sensible reasons in the content of your writing based on the task you are being asked to complete. Try and be varied with your vocabulary: this really helps! Ensure you write 1 $\frac{1}{2}$ pages per task: aim for 5 clear paragraphs and always double check basic errors (such as capital letters, full stops and making sure you have not used commas incorrectly). Support After school revision sessions covering all aspects of all examinations will take offered in place weekly on Thursdays in the English department and on Tuesdays in the school Library Useful links The exam board website: www.eduqas.co.uk GCSE English Language Resources on GCSE POD- Find writing and reading skills plus exemplars there. www.gcsepod.com Technical Accuracy Resources: www.bbc.co.uk/education/topics/z2b2tyc www.bristol.ac.uk/arts/exercises/grammar/grammar_tutorial/page_55 .htm www.bristol.ac.uk/arts/exercises/grammar/grammar_tutorial/page_41 .htm Edugas Past Papers: https://www.edugas.co.uk/qualifications/english-language gcse/#tab pastpapers Wider reading of non-fictions texts (such as articles in newspapers, extracts from diaries, biographies and autobiographies, reviews about places to visit etc.) will also help you develop your reading skills plus help develop your understanding of

writing persuasively and for different audiences and purposes.

Subject	English Literature
Number of	1
papers in the	
Mock series	
Material to be	An Inspector Calls: Essay (45mins)
examined	A Christmas Carol: Essay (45mins)
Format of the	Eduqas English Literature Component 2 - 45 mins on each text (90mins in total).
examination	
	An Inspector Calls Essay question (45 minutes) will start with a key extract and
	then ask students to widen their discussion to the rest of the text. There is one
	question to answer on this text. Questions are likely to be based on a
	presentation of character or theme. Students will be assessed on their understanding of the writer's ideas and their ability to support their comments
	with quotation from the text as well as comment on the methods of the writer,
	including the effects of language and structure. It is important to cover a range
	of events from across the text when answering the question.
	A Christmas Carol Essay question (45 minutes) will require students to start
	with an extract and then widen discussion to the rest of the text. There is one
	question to answer on this text. Questions are likely to be based on a
	presentation of character or theme. Students will be assessed on their
	understanding of the writer's ideas, as well as comments on the writer's method
	plus showing understanding of the contexts that influence the text. It is
	important to cover a range of events from across the text when answering the
Revision	question.
strategies for	 This is a closed book exam (the texts are not allowed in the exam); therefore, it is imperative that students have learnt the necessary
this subject	quotations and key words plus planned the key events for characters and
	themes. Use the revision booklets that have been placed on Google
	Classroom and shared by classroom teachers. In these booklets, there are
	lots of quotes that can be learnt for all characters and themes (similar
	quotes can be used for multiple types of questions to help with
	revising/remembering) as well as lots of grids with key events for planning
	responses to characters and themes.
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	Dailus/ IIIai ns.
	It is important not to spend too long on the extract: the examiner includes
	•
	approach is to plan 5 key moments in your answer i.e. first time you see
	 There are also practice papers in the back of these booklets and there are exemplar responses at different grades for students to read through so they can see the differences between a Band 2, 3 and 4 example answer. It is important to understand these differences to help students hit higher bands/marks. It is important not to spend too long on the extract: the examiner includes it as a way of 'getting going' and remember that what the examiner is looking for is coverage of the text and development of explanation (a good approach is to plan 5 key moments in your answer i.e. first time you see

the character/theme, last time you see the character/theme and three in the middle). Learn a range of quotes to help explain each 'event' and try and use some quotes that help explain the effect of language. Remember, discussion of context is not required for An Inspector Calls but it is for A Christmas Carol. However, the examiner is not asking for a biography of Charles Dickens but for some discussion of influences when explaining a key event: learning key words like 'Victorian London' and 'Industrial Revolution' that are then woven into a discussion of a quote is a good approach. There does not need to be huge discussion of 'social context' and it should not take over explaining the writer's ideas and effects of language. Coverage of events is important! Don't just explain a character/theme at the start but instead pick moments throughout the text and discuss each of them. Developing an explanation of a quote is also really important: use the revision guides to learn key words/interesting vocabulary and read the examples at the back to see the differences in marks awarded for more developed answers. Use GCSE Pod (www.gcsepod.com) for quick 5 minute activities which are specifically linked to our exam board. • If you prefer to listen to blogs, Mr Bruff or Dystopia Junkie on YouTube also produces some excellent resources for all the set texts. Go on this link and it will take you straight to Mr Bruff's channel. From there you can search for your text-Mr Bruff English Literature Edugas - YouTube. Make notes and graphic organisers as you listen. Support Revision sessions will take place Thursdays after school on the English corridoroffered in they will have a specific focus so that you can join into any if your own teacher is school not available. Our specifically designed Google Classroom section Digital- English KS4 has specific sections on all your set texts and narrated powerpoints too. Useful links The exam board website: www.edugas.co.uk An Inspector Calls https://www.bbc.co.uk/bitesize/topics/zpr639q A Christmas Carol https://www.bbc.co.uk/bitesize/topics/zyr639q Oak National Academy online revision lessons are great for consolidating and then revisiting that knowledge of our set texts; they are fully interactive so find them here: English lessons for Key Stage 4 students - Oak National Academy (thenational.academy)

Subject	Mathematics
Number of	2 exams - one non-calculator and one calculator papers.
papers in	
the PPE	
series	
Material to	Students to be examined on the 5 main areas of the new GCSE
be	specification: Number, Shape, Ratio and Proportion, Data and Algebra.
examined	
	The exam papers can (and will) contain material on every topic that
Format of	they've ever studied in Mathematics. Paper 1 - non-calculator
the	raper 1 - non-catcutator
examination	Paper 2 - calculator
Examination	
	Each paper lasts for 1 hour 30 minutes and is worth 80 marks. These
D	combine to give a final grade out of 160.
Revision	Students have been provided with a list of all the topics that can be tested at GCSE level. Students should use this list to identify topics to
strategies	focus their revision on. Students could also use their weekly quizzes to
for this	identify topics to revise.
subject	
	To address these topics, students should use their login details to
	access revision videos on www.drfrostmaths.com . This website also
	has exercises on every video that students can use to practise. There is a wealth of resources for students to look at and work through
	on www.corbettmaths.com www.mathsgenie.co.uk and
	www.gcsepod.com
Support	Class teachers will be working on exam technique and helping students
offered in	to revise in lessons.
school	Students will be given specimen papers to help them propare for the
	Students will be given specimen papers to help them prepare for the format of the exam.
	Torride or the exam
	Students will also be directed towards the best revision resources
	available to them.
Useful links	www.corbettmaths.com
	<u>www.gcsepod.com</u> www.drfrostmaths.com
	www.mathsgenie.co.uk
Other	Students will need their own scientific calculator for their Calculator
Information	Paper as well as a protractor and compass.

Subject	Science
Number of papers in the PPE series	3 full exam papers (PAPER 1).
	Each paper will be 1-hour 15mins long and will be worth 70 marks. 1 x Biology 1 x Chemistry 1 x Physics
Material to be examined	These papers will cover only Paper 1 content:
	Ell biology Cell biology Cells Microscopes and magnification calculations Cell differentiation and specialisation Diffusion Osmosis Active transport Exchanges surfaces and exchanging substances Organisation Cell organisation Enzymes Enzymatic reactions Enzymes and digestion Food tests Lungs Circulatory system: heart, blood vessels, blood Cardiovascular disease Health and disease Health and disease Non-communicable diseases Cancer Plant cell organisation Transpiration and translocation Transpiration and response Communicable disease Viral, fungal and protist diseases (specific examples) Bacterial diseases and preventing disease Fighting disease: vaccination and drugs Developing drugs Bioenergetics Rate of photosynthesis Respiration and metabolism Aerobic and anaerobic respiration
	□ Exercise

CHEMISTRY

Atomic structure and periodic table

- □ Atoms, elements, compounds
- Chemical equations
- Mixtures and chromatography
- Separation techniques
- Distillation
- The history of the atom
- Electronic structure
- Development of the periodic table
- Modern periodic table
- Metals and non-metals
- □ Group 1
- □ Group 7
- □ Group 0

Bonding, structure and properties of matter

- Formation of ions
- lonic bonding
- □ Ionic compounds
- Covalent bonding
- □ Simple molecular substances
- Polymers and giant covalent structures
- Allotropes of carbon
- Metallic bonding
- States of matter
- Changes of state

Quantitative chemistry

- □ Relative formula mass
- □ The mole
- Conservation of mass
- □ The mole and equations
- Limiting reactants
- Concentrations of solutions

Chemical changes

- Acids and bases
- Strong acids and weak acids
- Reactions of acids
- □ The reactivity series
- Separating metals from metal oxides
- □ Redox reactions
- Electrolysis of molten compounds
- Electrolysis of aqueous solutions

Energy changes

- Exothermic and endothermic reactions
- Energy profiles
- Bond energies

PHYSICS

Energy

- Energy stores and systems
- Kinetic and potential energy stores
- Specific heat capacity
- Conservation of energy and power
- Reducing unwanted energy transfers
- Efficiency
- Energy resources and their uses
- Wind, solar and geothermal
- Hydro-electricity, waves and tides
- Biofuels and non-renewables
- Trends in energy resource use

Electricity

- Current and circuit symbols
- □ Resistance and V=IR
- Resistance and IV characteristics
- Circuit devices
- Series circuits
- □ Parallel circuits
- Investigating resistance
- Electricity in the home
- Power of electrical appliances
- □ The National Grid

Particle model of matter

- The particle model and motion in gases
- Density of materials
- Internal energy and changes of state
- Specific latent heat

Atomic structure

- Developing the model of the atom
- Isotopes and nuclear radiation
- Nuclear equations
- □ Half-life
- □ Irradiation and contamination

Format of the examination

- **Each** paper will be worth 70 marks.
- Types of questions will be multiple choice, structured, closed short answer, and extended response.
- There will also be questions which will draw on the knowledge and understanding that you have gained by carrying out required practical activities.
- ❖ Your teachers will tell you if you are sitting the higher tier papers or the foundation tier papers.
- You will need a black pen, pencil, ruler, calculator and protractor for each paper.

Revision strategies for this subject

• Make sure the notes in your exercise book are complete. Read through these and highlight all the key words/model statements.

	 Re-visit past end of topic assessments and read the model answers you were provided with. Complete the questions at the end of each chapter in your revision guide, but make sure you mark them. Perhaps ask your parents or sibling to test you. Complete past paper questions that are accessible on Google Drive (the link to this is on Class Charts and Google Classroom). Identify the command word from a question and make sure you do what is asked. Use Physics equations flash cards Use the digital curriculum resources on Google Classroom. Make sure you can: convert units, name equipment accurately, describe and explain a variety of graphs.
Support	Retrieval and factual recall of previous topics done weekly within
offered in	lessons.
school	Digital curriculum resources prepared by your teachers are available on
	Google Classroom.
	> If you require help with a particular topic or question speak to your class
	teachers for support and help.
Useful links	CGP Apps - https://www.cgpbooks.co.uk/info/apps
	Seneca learning www.senecalearning.co.uk. Choose GCSE Combined Science AQA.
	 http://freesciencelessons.co.uk/aqa/ Short video tutorials of the course.
	 http://reesciencetessons.co.uk/aqa/ short video tutoriats of the course. https://classroom.thenational.academy/subjects-by-key-stage/key-
	stage-4 has some excellent interactive lessons for each topic and all the
	required practicals.
	 www.bbc.co.uk/education/subjects - BBC bitesize is a favourite for
	many students as there are video clips and animations. www.aga.org.uk
	The exam board we follow is AQA (Trilogy). Visit here to download the
	specification and past exam papers/mark schemes. Required practical
	videos on www.youtube.co.uk e.g. Free Science Lessons,
	Primrose Kitten or Malmesbury High School.
	Revision guides (published by CGP) are available to purchase in the
	Science office for £6.50

Subject	GCSE Religious Studies - Catholic Christianity
Number of papers in the PPE series	1 Paper - Catholic Christianity 1 Paper (105 minutes) 4 Units: • Catholic Christianity Beliefs and Teachings. • Catholic Christianity Practices • Catholic Christianity Sources of Wisdom and Authority • Catholic Christianity Forms of Expression
Material to be examined	Beliefs & Teachings 1.2 Biblical understandings of God as a Trinity of Persons: the nature and significance of God as a Trinity of Persons, including reference to the baptism of Jesus (Matthew 3:13-17).
	1.3 Creation: the significance of the Creation accounts for Catholics in understanding the nature and characteristics of God, especially as Creator, benevolent, omnipotent and eternal.
	1.7 The significance of the life, death, resurrection and ascension of Jesus for Catholic beliefs about salvation and grace, including John 3:10-21 and Acts 4:8-12; the implications and significance of these events for Catholic practice today.
	1.8* Catholic beliefs about eschatology: life after death; the nature of resurrection, judgement, heaven, hell and purgatory, including reference to John 11:17-27 and 2 Corinthians 5:1-10; why belief in life after death is important for Catholics today.
	Practices 2.1 Sacramental nature of reality: the meaning and effects of each of the seven sacraments, including Catechism of the Catholic Church 1210-1211; the practice and symbolism of each sacrament; how sacraments communicate the grace of God; divergent Christian attitudes to sacraments, including reference to Orthodox and Protestant Christianity.
	2.3 The funeral rite as a liturgical celebration of the Church: the funeral rite in the home, the church and the cemetery.
	2.4 Prayer as the 'raising of hearts and minds to God': different types of prayer; the Lord's Prayer, including Matthew 6:5-14, set (formulaic) prayers and informal (extempore) prayer; when each type might be used and why; the importance of prayer and the importance for Catholics of having different types of worship.
	2.6 Pilgrimage: the nature, history and purpose of Catholic pilgrimage; places people go on pilgrimage; divergent Christian understandings about whether pilgrimage is important for Christians today, with specific reference to Jerusalem, Lourdes, Rome, Walsingham.

Sources of Wisdom & Authority

- 3.1 The Bible: the development and structure of the Bible as the revealed Word of God: the origins, structure and different literary forms of the Bible: Old Testament: law, history, prophets, writings; and New Testament: gospels, letters.
- 3.3 The magisterium of the Church: the meaning, function and importance of the magisterium both conciliar and pontifical with reference to Catechism of the Catholic Church 100; the magisterium as the living teaching office of the Church and authentic interpreter of the affirmations of Scripture and Tradition, and why they are important for Catholics today.
- 3.5 The Church as the Body of Christ and the People of God: the nature and significance of the Church as the Body of Christ and the People of God, including Romans 12:4-6 and 1 Corinthians 12; why the Church as the Body of Christ and the People of God is important for Catholics today; divergent Christian attitudes towards these.
- 3.8 Sources of personal and ethical decision making: the example and teaching of Jesus as the authoritative source for moral teaching; Jesus as fulfilment of the Law, including Matthew 5:17-24; divergent understandings of the place and authority of natural law; virtue and the primacy of conscience; the divergent implications of these sources of authority for Christians today.

Forms of expression

- 4.3 The meaning and significance of sacred objects including hunger cloths within Catholicism: the way these are used to express belief, including Catechism of the Catholic Church 1161.
- 4.4 The meaning and significance of paintings, fresco and drawings within Catholicism with reference to two specific pieces and Catechism of the Catholic Church 2502-2503: the divergent ways these are used to express belief by the artist and those who observe the art, and the divergent ways in which paintings, frescos and drawings may be used in church and other settings.
- 4.5 The meaning and significance of sculpture and statues with reference to Catechism of the Catholic Church 2501: the way these are used to express belief by the artist and those who observe the art, the way these are used to express belief, and the divergent ways in which how sculptures and statues may be used in church and other settings.
- 4.6 The purpose and use of symbolism and imagery in religious art: the cross, crucifix, fish, ChiRho, dove, Eagle, Alpha and Omega, symbols of the four evangelists.

Format of the examination

Students must answer all questions.

- The assessment consists of three units with four questions in each unit, (a), (b), (c) and (d).
- The paper will assess spelling, punctuation and grammar (SPaG) and use of specialist terminology and will contribute a minimum of 5% of marks towards the overall weighting for this paper. SPaG is only assessed in GCSE (d) questions that are out of 15 marks instead of 12.

Revision strategies for this subject

Revision is a highly personalised process. However, the RE department feels that students can benefit from the following revision strategies:

Step 1: Read units of work in your book. Highlight key pieces of information. Read them again if you don't understand them. Write questions to ask your teacher for clarification purposes.

	Step 2: Condense your notes in your exercise book onto one piece of large paper so that everything you need in a unit is in one visible place. These notes do not have to be in full sentences as long as YOU can make sense out of them. Highlighting, colour and pictures help to link information and allows you to learn things more easily. Step 3: Repeat the process of reading through your notes. Condense even further onto index cards so that your revision is portable. Make the information stick in your mind. Quick Suggestions: Write your own D Question statements based on a topic, respond to the question. Complete some key words quizzes Watch Youtube videos and listen to Podcasts. Question Structure: (a) Questions require 3 full sentences. (b) Reason 1 and Development 1; Reason 2 and Development 2. (c) Exactly the same as a (b) answer but include a source of wisdom and authority. d) Evaluation questions need to have PEACE paragraphs. One developed PEACE paragraph to agree with a range of evidence to support & one developed PEACE paragraph to disagree with a range of evidence to support. Remember that you must include a justified conclusion to achieve 6 or more marks.
Support offered in school	Revision materials will be provided by your class teacher. After school revision is on a Tuesday after school in room 37 Revision books are available to buy for £10 on the School Gateway. If you would like more help / notes please see Miss Dallas.
Useful links	The full range of resources and testing materials are provided in the Digital Curriculum on Google Classroom which students have access to Resources also available via Seneca Leaning. There are also Google Quizzes on Google Classroom

Subject	GCSE Business Studies
Number of	1
papers in the	
PPE series	
Material to be	Paper 1 Investigating Small Businesses
examined	
	This is the work you completed in Year 10
	1.1 Enterprise and entrepreneurship
	1.2 Spotting a business opportunity
	1.3 Putting a business idea into practice
	1.4 Making the business effective
	1.5 Understanding external influences
Format of the	The paper is 90 minutes, with a total of 90 marks available. There are 3 sections to the
examination	paper.
	Section A: Multiple choice, calculation, short-answer and extended-writing questions.
	Each section is ramped, starting with multiple choice questions, moving to short answer
	questions and ending with extended writing.
	Sections B and C: Questions are based on real life, relevant business case studies. 9 and
Revision	 12 mark questions are in these sections of the paper. Read the revision guide that you were given in Year 10.
strategies for	 Read the revision guide that you were given in real 10. Produce a glossary of key terms and condensed notes for each topic.
this subject	 Use the resources available through the KS4 Business Digital
tills subject	Curriculum on Google Classroom.
	Alternatively, you may want to produce flash cards or mind maps to summarise
	the key information on each topic.
	Make sure you use the exam technique sheet in the front of your book when
	completing past paper questions.
	 Use the Edexcel website to access past paper questions and mark schemes. The mark schemes will tell you how marks are awarded for each question. When
	completing past papers, you should be spending 1 minute per mark, so you
	would spend 12 minutes completing a 12-mark question.
Support	Drop in sessions are available Friday lunchtime in the Sixth Form Common Room. Use
offered in	this opportunity to speak to a teacher about any classwork, homework or subject
school	content you are unsure of
Useful links	Exam board: Edexcel
	Course title: GCSE (9-1) Business (2017) Practice questions:
	1. Google 'Edexcel Business 2017'
	2. Click the first link which takes you to the Edexcel Business
	website
	3. Click 'Course materials'
	4. Click 'Sample assessment material' YouTube channel: BizConSesh GCSE Edexcel Business 9-1
	YouTube Channet: BizConsesh GCSE Edexcet Business 9-1 Web address: https://goo.gl/TJUzmV
	A variety of revision videos for all topics
	Search: 'Tutor2U website - Edexcel GCSE Business' for revision
	notes and quizzes.
	Seneca Learning - Links on Google Classroom

Subject	Child Development
Number of papers in the PPE series	1
Material to be examined	 The different stages of play and types of play that children experience between birth and five years old how play can be structured by adults to encourage and influence learning. Considering play opportunities that adults can provide for children in community settings, in the home and in early years settings. Learning how specific activities and resources can promote learning across the five areas of development. Develop an understanding of the theory and practices to plan activities that encourage children to learn and develop. Being confident in planning activities that benefit children's learning and development is a highly regarded skill in the early years sector.
Format of the examination	ICT – PSA style task completed in exam conditions. Class workbook is allowed into the task, however you will be working on an examinations log in.
Revision strategies for this subject	For this PSA there is no set revision - Students should instead ensure that their class book is up to date and there is no missing information from the lessons.
Useful links	Google classroom https://classroom.google.com/w/NjlxMzcwMDQ4Njl3/tc/Njl1NTY0MDcyNjU2

Subject	Computer Science
Number of papers in the PPE series	1 Paper (Combination of unit 1: Computer Systems and Unit 2: Computational thinking, algorithms and programming)
Material to be examined	1.1 Architecture of the CPU The purpose of the CPU Fetch, Decode, Execute Cycle Von Neumann Architecture: MAR (Memory Address Register) MOR (Memory Data Register) Program Counter Accumulator Common CPU Components and their function: ALU (Arithmetic Logic Unit(CU (Control Unit) Cache Registers 1.1.2 CPU Performance How common characteristics of CPUs affect their performance Cache Size Number of cores 1.1.3 Embedded Systems The purpose and characteristics of embedded systems Examples of embedded systems 1.2.1 Primary storage (Memory) The need for primary storage, RAM and ROM Virtual memory 1.2.2 Secondary storage The need for secondary storage & Common types of storage: O Optical O Magnetic O Solid state The advantages and disadvantages of different storage devices and storage media relating to these characteristics: O Capacity O Speed O Portability O Durability O Durability O Durability O Reliability O Cost

1.2.3 Units

- The units of data storage
- How data needs to be converted into a binary format to be processed by a computer
- Data capacity and calculation of data capacity requirements

1.2.4 Data storage (Numbers)

- How to convert positive denary whole numbers to binary numbers (up to and including 8 bits) and vice versa
- Binary Addition
- Hexadecimal Conversions
- Binary shifts

1.2.4 Data storage (Characters)

- The use of binary codes to represent characters
- The term 'character set'
- The relationship between the number of bits per character in a character set, and the number of characters which can be represented, e.g. ASCII or Unicode

1.3 Networks

- Types of network: o LAN (Local Area Network) o WAN (Wide Area Network) and network hardware
- Factors that affect the performance of networks
- The different roles of computers in a client-server and a peer-topeer network
- DNS (Domain Name Server
- The Cloud
- Network Topologies
- Modes of connection (Wired & Wireless)
- Encryption
- IP Addresses and MAC Addresses
- Standards and Protocols

1.4 Threats to computer systems and networks

- Threats to Computer Systems (Malware, Social Engineering, Brute-Force Attacks, Denial of Service, SQL Injection, Data interception)
- Identifying and preventing vulnerabilities (Penetration testing, Anti-malware, Firewalls, User access levels, Passwords, Encryption, Physical security)

2.1 Algorithms

Computational Thinking
 Abstraction, Decomposition, Algorithmic Thinking

	2.2 Programming Techniques
	The use of variables, constants, operators, inputs, outputs, assignments
	The use of the three basic programming constructs used to control the flow of a program:
	Sequence; selection
	the use of basic string manipulation
	the use of data types: integer; real; Boolean; character; string; casting
	the common arithmetic operators
	the common Boolean operators.
	maintainability: comments; indentation
	the purpose of testing; how to identify syntax and logic errors; selecting and using suitable test data.
	Common tools and facilities available in an Integrated Development Environment (IDE): Editors; Error diagnostics; Run-time environment; Translators
Format of the examination	The exam paper is out of 80 marks. Types of questions will include closed short answers and open response. Including algorithm questions. You should expect one extended written question.
Revision strategies for this subject	Use your digital workbooks to revise and recover key words and learning. Watch the recorded lessons on Google Classroom and exam walkthroughs Use the diagnostic quizzes on Google Classroom Re-visit past assessments and read the model answers Use the revision book you have been provided with Use the revision cards you have been provided with Use Craig and Dave YouTube videos for reminders of challenging content. Use Seneca for self-assessment and learning.
Support offered in school	 Retrieval and factual recall of previous topics done weekly within lessons All students are welcome to 'drop-in' to the Computer Science department to seek support from any teacher. Class teachers will offer individual support to their groups at a lunchtime / afterschool. Weekly intervention sessions.
Useful links	www.senecalearning.co.uk https://craigndave.org/videos/ Revision guides available to borrow from the computer science library in room 56.

Subject	BTEC Tech Award: Construction in the built environment.
Number of papers in the PPE series	All pupils will sit one exam paper, which is one hour long.
Material to be examined	Pupils will need to ensure that they revise the following topics. Name two pre-construction legal requirements Site based pre-construction Types of pointing used in facing brickwork. Fire resistant materials Cross wall construction Types of brick work pointing Hazards associated with sub structure ground work How can you locate electrical cables? Permanent ways to control sub-soil water Label a suspended timber framed floor Draw and label a cross section of a flat roof What is embodied energy Why would a building face south? To be able to discuss the difference between a timber framed Wall and a brick cavity wall.
Format of the examination	The exam will last for one hour and all questions should be answered in full. There is a range of question styles in the exam, it is important that they are read carefully and that any additional information given to help answer the questions is used. The number of marks available for each question will indicate how much time
Revision strategies for this subject	should be allocated before moving on to the next section. Mr Cox will continue to work on the exam content during lessons until the exams with the focus being on revision strategies. It is essential for each pupil to bring their revision textbook and their revision work book to each lesson. A good way to collect information on the key topics is to produce a range of mind maps and flash cards along with using the Cornell method to produce accurate notes. They will have an opportunity within lessons to work on these techniques
Support offered in school	 ✓ All pupils are welcome to come for support and to attend intervention sessions on Tuesday night from 3:10 to 4:00pm in Room 53. ✓ Mr Cox will also offer individual support within lessons.
Useful links	 ✓ A full list of revision links will be added to "Google classroom/ BTEC Construction / Digital Curriculum". The BTEC Construction digital curriculum is a valuable resource. ✓ We would recommend that the students spend a considerable amount time adding key information to their Cornell notes revision book.

Number of papers in the PPE series Material to be examined Students will need to ensure that they revise the following topics. Identify types of inputs, process and outputs. Explain the forces acting on a chair Manufacturing process for example JIT + mass production Explain what a smart material is Revise levers and how to work out the movement of a lever. Explain the properties of corrugated card Why is there an increased use of renewable energy? How to work out a ratio To be able to name stock forms of materials How to reinforce materials To explain the manufacturer of a product Discuss the ethical choice of materials used in design To be able to evaluate a product to a given criteria What is ergonomics and anthropometrics? Working out the percentage of a product Why do designers create models? How to minimalize waist on a sheet of plastic. (Nesting) The exam will last for two hours and all questions are to be answered. There is a range of question styles in the exam, it is important that you read the questions fully and use any other information given to help answer the questions. Highlight any keywords you recognise and plan your answers before you start answering the question. Mrs Birchall will continue to work on the exam content during lessons until the exams with a focus on revision strategies. For each of the lessons, the students will need to bring in their blue revision book. There will be one specific topic each week that you will revise and be tested on. We will complete a therapy session on each one. A good way to revise and make notes is bullet pointing, spider diagrams as well as underlining/highlighting keywords.	Subject	GCSE Design Technology
All pupils will sit one exam paper, which is 1hr 30 hours long. **Material to be examined** **Students will need to ensure that they revise the following topics.** **Identify types of inputs, process and outputs.** **Explain the forces acting on a chair or Manufacturing process for example JIT + mass production or Explain what a smart material is or Revise levers and how to work out the movement of a lever.** **Explain the properties of corrugated card or Why is there an increased use of renewable energy?** **How to work out a ratio or To be able to name stock forms of materials or To explain the manufacturer of a product or Discuss the ethical choice of materials used in design or To be able to evaluate a product or a given criteria or What is ergonomics and anthropometrics?* **Working out the percentage of a product or Why do designers create models?* **How to minimalize waist on a sheet of plastic. (Nesting) **Format of the exam will last for two hours and all questions are to be answered. There is a range of question styles in the exam, it is important that you read the questions fully and use any other information given to help answer the questions. Highlight any keywords you recognise and plan your answers before you start answering the question. **Mors Birchall will continue to work on the exam content during lessons until the exams with a focus on revision strategies. For each of the lessons, the students will need to bring in their blue revision book. There will be one specific topic each week that you will revise and be tested on. We will complete a therapy session on each one. **A good way to revise and make notes is bullet pointing, spider diagrams as well as underlining/highlighting keywords.**	_	GCSE Design Technology
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Support ✓ We recommend that all pupils access the google classroom Digital	Support	✓ We recommend that all pupils access the google classroom Digital
	offered in	
	school	
✓ Use the exam preparation sheets and handouts which have been provided		· ·
by the Technology Department		
✓ Attend Tuesday 3:10 - 4pm intervention in room 52 (Mr Cox)	Heaful limbs	
Useful links A full list of revision links has been added to "Google / Design Technology digital curriculum" and your child will have shared access to these resources.	Useful links	
We would recommend that the students spend time reading the revision guides		
and completing cornel notes on each topic. This has proven to be a valuable key		·
feature in increasing individual student grades.		i i i i i i i i i i i i i i i i i i i

Subject	Geography
Number of	OCOSI aprily
papers in the	1
PPE series	
Material to	The exam will be a mixed paper and will include topics from both paper
be examined	1 and paper 2. It will be split into three sections as follows:
DC CXAIIIIICA	Section A: The challenge of natural hazards
	Tectonic hazards
	Atmospheric hazards
	Climate change
	Section B: Urban issues and challenges
	Urban change in HIC, NEE and LICs
	Urban change in a NEE city- Rio De Janeiro
	Urban change in the UK- London
	Section C: The changing economic world
	The global development gap
	Nigeria as a NEE
	The UK's changing economy
Format of	Examination paper: 90 minutes.
the	Section A The challenge of natural hazards- 33 marks
examination	Section B Urban issues and challenges 30 marks
	Section C The changing economic world- 30 marks
	Total marks: 93
Revision	Complete practice papers and questions as much as possible.
strategies	Create A3 revision sheets for each of the topics (These are available from
for this	your teachers).
subject	Create flash cards of key terms and processes.
	Watch as many GCSE pod videos as possible for these topics.
	Listen to the AQA GCSE podcasts available on apple (See the link below).
Support	All classes receive a week of revision lessons prior to the PPE series.
offered in	Digital curriculum material created by staff.
school	Past paper questions given for revision.
	A3 revision sheets to prompt what knowledge is needed.
	Monday evening revision clinics from 16/10/23
Useful links	Geography digital curriculum:
	https://classroom.google.com/c/MTM2OTI5MzQ4MzYy
	BBC Bitesize AQA GCSE Geography:
	https://www.bbc.co.uk/bitesize/examspecs/zy3ptyc GCSE Pod:
	https://members.gcsepod.com
	The GCSE podcast: https://podcasts.apple.com/gb/podcast/aga-
	geography-podcast/id1534025558
	PMT free revision resources:
	https://www.physicsandmathstutor.com/geography-revision/gcse-aqa/

Subject	Health and Social Care
Number of papers in the PPE series	1
Material to be examined	Explores health and social care services and how they meet the needs of service users, you have also studied the skills, attributes and values required when giving care. Providing good health and social care services is important and service providers need to have the appropriate skills, attributes and values to meet the needs of service users. These skills, attributes and values are important because they enable people who use health and social care services to get the care they need and to be protected from different sorts of harm. This component will give you an understanding of health and social care services and will help you to understand the skills, attributes and values that are common across the sector (some of which are transferable to other sectors that involve interactions with clients or customers).
Format of the examination	ICT - PSA style task completed in exam conditions. Class workbook is allowed into the task, you will be working on an examinations log in.
Revision strategies for this subject	For this PSA there is no set revision - Students should instead ensure that their class book is up to date and there is no missing information from the lessons.
Useful links	Google classroom A1 - https://classroom.google.com/w/NTQ5MzQwMjU5MDQ4/tc/NTkyODczMjMzMTly A2 - https://classroom.google.com/w/NTQ5MzQwMjU5MDQ4/tc/NjAwNDk2Mzc0NzYw A3 - https://classroom.google.com/w/NTQ5MzQwMjU5MDQ4/tc/NTkyODc0MTcyMTk5 B1 - https://classroom.google.com/w/NTQ5MzQwMjU5MDQ4/tc/NTkyODcyMDU1NzE1 B2 - https://classroom.google.com/w/NTQ5MzQwMjU5MDQ4/tc/NTQyNTE5Mzc2MDYx B3 - https://classroom.google.com/w/NTQ5MzQwMjU5MDQ4/tc/NTkyODc0NTA4MjA4 B4 - https://classroom.google.com/w/NTQ5MzQwMjU5MDQ4/tc/NTkyODc1MDczNjM0

Subject	History
Number of	1 paper
papers in the	1hr 20m (Germany 1918-1939)
PPE series	W
Material to	Weimar and Nazi Germany (1918-1939)
be examined	Devit 4 Common 4040 4022
	Part 1 Germany 1918-1923 - What were the impacts of the First World War on Germany? - What were the strengths and weaknesses of the Weimar Republic? - Why was the Treaty of Versailles so unpopular in Germany? - How did left wing groups challenge the Weimar Republic? - How did right wing groups challenge the Weimar Republic? - Why was 1923 a bad year for Germany? - What was the early Nazi Party like? - Was the Munich Putsch a total disaster?
	Part 2 Life in Nazi Germany (1933-39) How was Germany a police state under the Nazis? How did the Nazis use propaganda and censorship to control Germany? How did the Nazi Party control the Church? How did the Church oppose the Nazis? What were Nazis views on women and the family? How were children educated in Nazi Germany? How did the Nazis control youth groups? How did youths oppose the Nazis? How did the Nazis reduce unemployment? How did standards of living change under the Nazis? What were Nazi views on race? How did the Nazis persecute the Jews between 1933 and 1939?
Format of the	Question 1 - Give two things you can infer from Source A about (4 marks)
examination	Question 2 - Explain why (12 marks)
	Question 3A - How useful are Sources B and C for an enquiry into (8 marks)
	Question 3B - What is the main difference between Interpretations 1 and 2? (4 marks)
	Question 3C - Give one reason why Interpretations 1 and 2 differ (4 marks)
	Question 3D - How far do you agree with the view of Interpretation X? (16marks + 4 SPAG)

Revision strategies for this subject	Step 1: Read units of work in your book. Highlight key pieces of information. Read them again if you don't understand them. Write questions to ask your teacher for clarification purposes. Step 2: Condense your notes in your exercise book onto one piece of large paper so that everything you need in a unit is in one visible place. These notes do not have to be in full sentences as long as YOU can make sense out of them. Highlighting, colour and pictures help to link
	Step 3: Repeat the process of reading through your notes. Condense even further onto index cards so that your revision is portable. Make the information stick in your mind. READ CONDENSE REPEAT Use your revision guides
Support offered in school	 Class teachers will offer individual support to their groups if students require it. Remember you can also email staff if you have a question
Useful links	Revision guides can be purchased from the school Finance Office for £10.80 for all 4 booklets (the GCSE has 4 papers) Payments must be made via SchoolGateway - A full list of revision links will be added to "Show My Homework" and your child will have shared access to these resources. - GCSE Pod - Seneca Learning - Try the revision quizzes on the website Kahoot. - PIXL GCSE History revision app - Also use YouTube to watch videos on the topics you have studied. - There are lots of great twitter history accounts with resources on that you can use - just search for the topic you are wanting help with.

Subject	WJEC Hospitality and Catering
Number of papers in the PPE series	1
Material to be examined	You will need to revise all aspects of the course and this includes • Safety and Hygiene in the kitchen • Structure and jobs within the industry • Health and lifestyle factors effecting food choices • Labelling of food and cleaning products • Food safety and role of good kitchen hygiene
Format of the examination	The exam asks students to relate their knowledge of food types and products, giving examples ways that establishments can cater for different customers. Case studies are provided for students to analyse and make recommendations for.
Revision strategies for this subject	All students will be provided with detailed revision materials that are made into guides for each learning aim, enabling students to work on particular topics. Each guide has a range of activities are given in each book, including condensing and factual recall. A good way to collect information on the key topics are mind maps and flash cards, you will have an opportunity within lesson to work on these. GCSE Bitesize has a great section where you can test yourself on the functions of foods in the body and allergies. http://www.bbc.co.uk/schools/gcsebitesize/design/foodtech/
Support offered in school	All students will be provided with detailed revision materials that will include information on the exam.
Useful links	A full list of revision links will be added to "Class Charts" and Google Classroom. GCSE Bitesize has a great section where you can test yourself on the functions of foods in the body. http://www.bbc.co.uk/schools/gcsebitesize/design/foodtech
Dates of examination	The external exam is June 2023.

Subject	OCR GCSE Music
Number of papers in the Mock series	All pupils will sit one exam paper. It is 1hr and 30 minutes.
Material to be	AoS2 Concerto Through Time
examined	You should revise typical characteristics and features of:
	Baroque Concerto Grosso Classical Concerto. Focus on: Recognising instruments of the orchestra including the sections Texture and Instrumentation - How the soloist(s) and orchestra work together Dynamic contrasts Articulation and instrumental techniques Modulations and cadences Intervals Musical Devices
	AoS 3 Rhythms of The World Revise the traditional rhythmic roots of: Punjabi Bhangra Calypso Revise the characteristic and rhythmic features of: • Traditional Indian Classical Music • Traditional Calypso
	AoS 4 Film Music Be prepared to answer two questions one on film and one on game music. One of these questions will be question 3, the extended nine marker question. Revise features of: Madtshirt and demonstrate a complete understanding of these elements. How composers create music to support, express, complement and enhance a scene. A mood or emotion being conveyed on the screen A significant character(s) or place, specific actions or dramatic effects.
	AoS 5 Conventions of Pop Revise the following topics: Rock 'n' Roll of the 1950s and 60s Pop Ballad (Comparison Question - 6 marker) Revise: Vocal techniques - including backing vocals Intervals
	 Instrumental techniques - Guitar, Keyboard/Piano, Drum Kit How voices/instruments interact with each other Features of accompaniments in popular music Features and use of technology
Format of the	 Typical musical characteristics and features of the topics above. Listening Exam - 1hr 30 minutes. The exam will take place in Room 18.
examination	There will be a question set on each topic listed above.
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	All questions should be answered in full. There is a range of question styles in the exam and it is important that all questions are read carefully and answer questions using the timings and order practised in class.
Revision strategies for this subject	We will continue to work on the exam content during lessons until the exams with the focus being on revision strategies. It is essential to bring books to class every lesson. A good way to collect information on the key topics is to produce a range of mind maps and flash cards along with using the Cornell method to produce accurate notes. You will have opportunities within lessons to work on these techniques.
	Revision is a highly personalised process. Listening to as wide a variety of music linked to the areas of study is vital and can be incorporated into a revision schedule whilst completing written tasks/homework/revision from other subjects too.
	Complete all listening revision tasks on each topic on Google Classroom, Auralia, Musition and Focus on Sound.
	Use the MAD TSHIRT resource to complete revision on each topic and follow the steps below:
	Step 1: Read units of work in your book/notes. Highlight key pieces of information. Read them again if you don't understand them. Write questions to ask your teacher for clarification purposes.
	Step 2: Condense your notes in your exercise book onto one piece of large A3 paper so that everything you need in a unit is in one visible place. These notes do not have to be in full sentences so long as YOU can make sense of them. Highlighting, colour and pictures help to link information and allows you to learn things more easily. Step 3: Repeat the process of reading through your notes. Condense even further onto
	revision cards so that your revision is portable. Make the information stick in your mind. READ CONDENSE REPEAT
Support offered in school	 ✓ Year 11 GCSE sessions: ✓ Monday, Tuesday, Wednesday lunchtime 12.30pm - 1.30pm Room 18 ✓ We recommend all pupils access Google Classroom as this contains all the revision topics covered in class.
Useful links	 ✓ A full list of revision links is in 'Google Classroom' and students will have shared access to these resources. ✓ Focus on Sound, Auralia and Musition revision activities should be completed on a weekly basis as directed by teachers for each AoS. ✓ Students are provided with course book/guides for each AoS with all the information they need to revise for the listening paper. ✓ Students should have purchased the OCR GCSE Music Revision Guide 2018 onwards published by Rhinegold; second hand copies are available to purchase online for a lower cost.
Other information	 ✓ Composition 1 Deadline 20th October ✓ Solo Performance Deadline 13th October

Subject	AQA GCSE Physical Education
Number of papers in the PPE series	1 (Paper 01 and Paper 02 will be examined during the same exam)
Material to be examined	 Seasonal aspects (pre, competition, postseason) Effects of exercise Warm-up and cool-down Preventing injury Aerobic and anaerobic EPOC Recovery Components of fitness and fitness testing Spirometer trace Types of training Training intensities SMART targets Types of goals Skill and ability Classification of skills Arousal Aggression Personality types Information processing model Types of guidance Types of feedback Conduct Motivation Structure of the skeleton Functions of the skeleton Bones Structure of synovial joint Joint movements and analysis in sporting examples Types of joints Muscles of the body Agonist/antagonist and types of contractions Health and wellbeing Sedentary lifestyle Obesity Somatotypes Energy use Nutrition
Format of the examination	One written exam paper which will assess Paper 01 and Paper 02 content. It will contain:

	 Multiple choice questions Short answer questions (2 - 6 marks) One extended answer question (9 marks)
Revision strategies for this subject	 AQA GCSE PE revision guide which each student has a copy. Practice, practice, practice: https://www.aqa.org.uk/subjects/physical-education/gcse/physical-education-8582/assessment-resources Planning and responding to the 9 mark response. Point AO1, expand AO3, example AO2. PPE preparation study skills guides on Google Classroom Timetable chunks of revision - Short periods of 30 mins on a couple of topics Self-quizzing Flashcards - but you must design them so that you can self-test! List 10 key facts about each topic Read, cover, recall. Read, cover, recall. Read, cover, recall. What doesn't work! Just reading through notes or books Just highlighting texts
Support offered in school	Mr Gavin - dgavin@thornleigh.bolton.sch.uk Mr Whitehead - cwhitehead@thornleigh.bolton.sch.uk Revision sessions in room 48 closer to the exam date. Your class teacher will give you dates for these in class.
Useful links	NEA evaluation and analysis (coursework - 10%) of performance is ongoing. You can return to this and update it with new learning that we have studied in class. NEA practical performance is ongoing (30%). Please ensure that you are regularly attending practices, representing school or continuing with your activity/activities outside of school. Please continue to collect video evidence where appropriate.

Subject	CDANICH
	SPANISH
Number of	There will be 3 papers for each tier
papers in the PPE series	Foundation listening – 35 minutes
PPE series	Foundation reading – 35 minutes
	Foundation writing – 50 minutes
	High and Patrick and Affinition to
	Higher listening – 45 minutes Higher paradia = 45 minutes
	Higher reading – 45 minutes Higher reading – 50 minutes The second reading in the second reading re
	Higher writing – 50 minutes
	Speaking exam – 15 minutes
Material to be	Theme 1 - Identity and culture
examined	Topic 1: Me, my family and friends
	Relationships with family and friends
	Marriage/partnership
	Topic 2: Technology in everyday life
	Social media, Mobile technology
	Topic 3: Free-time activities
	Music, Cinema and TV
	Food and eating out
	• Sport
	Topic 4: Customs and festivals in Spanish-speaking countries/communities
	Theme 2 - Local, national, international and global areas of interest
	Topic 1: Home, town, neighbourhood and region
	Topic 4: Travel and tourism
	There 2. Compart and fortune study and appropriate
	Theme 3 - Current and future study and employment Topic 1: My studies
	Topic 2: Life at school/college
Format of the	<u>Listening (35 mins Foundation / 45 mins Higher)</u>
examination	You will hear exerts in Spanish
	If the questions are in English they are responded to in English
	If the questions are in Spanish they are responded to in Spanish
	These may be single word, multiple choice or a short sentence
	Reading (35 mins Foundation / 45 mins Higher)
	You will read short extracts in Spanish
	If the questions are in English they are responded to in English
	If the questions are in Spanish they are responded to in Spanish
	These may be single word, multiple choice or a short sentence

	There is a short translation from Spanish to English
	Writing (50 mins Foundation / 50 mins Higher)
	 You will write short sentences in Spanish as a response to a picture You will translate short sentences from Spanish into Spanish You will write in Spanish 1 extended passages of approximately 90 words on the given topics which you have studied (You will have a choice of 2 questions)
	 Higher You will write in Spanish an extended passage of approximately 150 words on the given topics which you have studied (You will have a choice of 2 questions) You will also have a short passage to translate from English into Spanish
Revision strategies for this subject	 Vocabulary learning is essential and all students have their own copy of a prescribed list of words Students need to revise all classwork and revisit extended reading and written pieces. All students have access to additional resources on Kerboodle for both Listening and Reading practice Create flashcards, glossaries or mind maps with key vocabulary on the main theme/topic areas Students need to continue to thoroughly learn the answers to all the speaking questions as these will also support the written section of the exam
Support offered in school	 ✓ Identified cohorts will be receiving additional support ✓ All students are welcome to come for MFL support and to attend intervention / revision sessions in the MFL department – see your teacher ✓ Class teachers will offer individual support to their groups.
Useful links	 ✓ www.languagesonline.org.uk – grammar explanations and topic vocabulary with activities to practise ✓ www.memorizenow.com – create flashcards to test yourself online ✓ www.vocabexpress.com – register with your school e-mail address ✓ www.mflgames.co.uk ✓ www.channel4.com/extra ✓ www.bbc.co.uk/languages/spanish ✓ Duolingo – app for your phone ✓ www.lyricstraining.co.uk ✓ www.quizlet.com – vocabulary building exercises ✓ www.kerboodle.com – students have their own individual log on details – institution code is jsm4 ✓ YouTube – slow news in Spanish



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Home School Church Playground