

YEAR 10 - REVISION TOPICS

ART & DESIGN - FINE ART

During the exam pupils will create a practical response to their current unit of work, NATURAL AND CONSTRUCTED FORM that 'realises intentions' (Assessment Objective 4). The following preparation is necessary:

- A CLEAR UNDERSTANDING OF ASSESSMENT OBJECTIVES.
- A CLEAR UNDERSTANDING OF HOW TO DEVELOP A SUCCESSFUL PROJECT
- Independent artist research linked to assessment objectives. (AO1)
- Ongoing media studies and development of ideas. (AO2)
- Ongoing recording of ideas – drawing, photography, 2D, 3D, digital work (AO3)
- Ongoing development of drawing techniques to improve skill level, linked to all assessment objectives.

The outcome of the exam (AO4) is combined with Assessment Objectives 1 to 3 (preparation) for the overall grade.

ART & DESIGN - GRAPHICS

During the exam pupils will create a practical response to their current unit of work, SOW EASY. The outcome must respond to the brief and 'realise intentions' (Assessment Objective 4). The following preparation is necessary:

- A CLEAR UNDERSTANDING OF ASSESSMENT OBJECTIVES.
- A CLEAR UNDERSTANDING OF HOW TO DEVELOP A SUCCESSFUL PROJECT
- Independent artist and product-based research linked to assessment objectives. (AO1)
- Ongoing media studies and development of ideas. (AO2)
- Ongoing recording of ideas – drawing, photography, 2D, 3D, digital work (AO3)
- Ongoing development of digital techniques to improve skill level, linked to all assessment objectives.

The outcome of the exam (AO4) is combined with Assessment Objectives 1 to 3 (preparation) for the overall grade.

BIOLOGY

B1 Key Concepts in Biology

B2 Cells and Control

B3 Genetics

B4 Natural Selection and Genetic Modification

B5 Health, Disease and the Development of Medicines.

Students should refer to the yellow specification booklet they were provided with at the start of the year to identify all information contained within each of the GCSE topics mentioned above.

CHEMISTRY

The GCSE course (Edexcel 1-9) was started in Year 9. The topics examinable in the End of Year exam are all those covered so far in years 9 and 10. The full specifications are listed in the GCSE booklet issued at the start of year 9 and used for all test reviews since. An electronic copy is available via our Google site but also via the QR code below:



- ATOMIC STRUCTURE
- PERIODIC TABLE & BALANCING EQUATIONS
- WRITING FORMULA, ATMOSPHERE & CLIMATE CHANGE
- OBTAINING AND USING METALS
- ACIDS
- STATES OF MATTER, MOLES AND SEPARATION TECHNIQUES
- RATES OF REACTION
- BONDING AND ENERGY
- FUELS, CRUDE OIL, CRACKING AND POLLUTION
- STRUCTURES AND LIMITING REAGENTS
- Reversible REACTIONS

This relates to the following parts of the specification 1.1-1.53, 2.1-2.12, 3.1-3.21*, 4.1-4.12, 4.13-4.17, 6.1-6.16, 7.1-7.16, 8.1-8.26, 9.10C-9.20C

* higher level content in this section will not be assessed in Year 10

CLASSICAL CIVILISATION

Myth and Religion:

- Topic 1: The gods - identifying the gods using their iconography, knowing why and how they were important, explaining their anthropomorphic nature.
- Topic 2: Universal Hero - Heracles / Hercules
- Topic 3: Religion and the City - Sanctuaries, Temples, Priests, Sacrifices
- Topic 4: Foundation Stories - Erectheion, Athena and Poseidon, Theseus, Aeneas, Romulus and Remus
- Topic 5: Festivals - PanAthenaia, City Dionysia, Lupercalia, Saturnalia
- Topic 6: Myth and Symbols of Power
- Topic 7: Death and Burial
- Topic 8: Journeying to the Underworld

You may be given more specific information about topics closer to the exams - if so, this will be posted on your Google Class Page

You should know the **prescribed sources** under each topic and expect to answer questions on them .

COMPUTER SCIENCE

Section 1

- Iterating through a 2D array
- Algorithms and pseudocode
- Insertion, bubble sort
- Binary and Linear Search
- Data representation converting hex, binary and addition of binary numbers

Section 2

- Client Server and peer to peer networks
- Protocols and layers
- Network topologies
- Wired and Wireless Networks
- Section 3 machine architecture
- RAM and ROM
- Fetch Decode Execute Cycle
- Embedded Systems
- Storage devices and media

DESIGN & TECHNOLOGY

Time allowed: 1 hour 30 minutes

The paper is divided into three sections as follows:

- Section A Core technical principles (20 marks)
- Section B Specialist technical principles (20 marks)
- Section C Designing and making principles (40 marks)

The maximum mark for the paper is 80

Equipment needed:

- Black or blue pen, HB pencil, ruler

Types of question in the examination:

- Short multiple-choice questions (where you would select one, of four, possible answers to a given question)
- Short-answer questions (where you would 'state', 'name' or 'give' etc.)
- Extended (describing manufacturing processes, or ways of changing material properties in more detail etc.)

- Evaluation-type (where you would discuss the positive and negative effects of important areas such as mining, farming, use of biodegradable polymers, renewable forms of energy etc.)
- Product analysis and evaluation questions (where you would describe and evaluate the various features of a product in detail)
- Applied mathematical questions (approximately 15% of the overall DT paper)

Areas to be covered in the examination:

- Light dependent resistors (LDRs) and other electronic components
- Crowdfunding, Fairtrade, Co-operatives
- Types of forces such as tension, torsion, bending etc.
- Hardwoods: properties and applications
- Thermosetting plastics: properties and applications
- Metals and alloys: properties and applications
- Flexible manufacturing processes used in industry
- Mechanisms: gears, levers, pulleys etc.
- Classification and applications of smart materials such as thermo-colour pigments etc.
- Renewable forms of energy such as biomass, solar, tidal etc.
- Applications and properties of laminated carton board and other sheet and board materials
- Stock forms of metal, polymer and timber-based products
- Ways in which materials (the three categories mentioned above) can be reinforced, strengthened or stabilised to make them more useful in product manufacturing situations
- Social, moral and ethical impact of material selection (in product design) on society
- The environmental impact and aesthetic qualities of everyday household products
- Use of anthropometric data and ergonomics in product design
- Computer aided design (CAD) models and how CAD can be linked to computer aided manufacturing (CAM) applications such as laser cutters and CNC lathes, milling machines
- Design specifications
- Design movements of the 20th Century

ENGLISH LANGUAGE

The exam will be a full AQA English Language Paper 2 paper: Writers' Viewpoints and Perspectives (1h45m).

Section A - Reading, 1 hour

- Question 1 - Choose the four correct statements.
- Question 2 - Summary of the differences between two texts.
- Question 3 - How the writer uses language in one text to a particular effect.
- Question 4 - Comparison of the writers' attitudes in both texts, including method analysis.

Section B - Writing, 45 minutes

- Writing an article, letter or speech based on a given prompt. Students should write to persuade using a range of rhetorical devices.

More resources for revision can be found on the department website:

<https://sites.google.com/rgshw.com/rgs-english/home>

ENGLISH LITERATURE

The exam will be based on AQA English Literature Paper 2, Modern Texts and Poetry but will not include Unseen Poetry.

Students will complete one 45 minute essay on Macbeth and so should equip themselves with a **range of memorised quotations** relevant to key characters and themes. They should also revise the relevant historical context of the play. Students will then complete a second 45 minute comparative essay on two poems from the Power and Conflict anthology that they have studied so far. They will be given the first poem but will need to choose a poem to compare

it with from memory. They should therefore **memorise quotations from a range of different poems** that could apply to different themes as well as key contextual information.

More information, including a fully annotated copy of *Macbeth* refer to the department website:

<https://sites.google.com/rgshw.com/rgs-english/home>

FRENCH

Anything we have done this year may come up. You can access the Pearson GCSE textbook on ActiveHub and all vocabulary lists on Quizlet: <https://quizlet.com/class/29295537/materials> You should also look back at the notes in your exercise book and can revise grammar and practise reading and listening on languagenut, languagesonline and thisschool. Each chapter of the textbook on ActiveHub also contains exam style reading, listening and writing questions with useful hints and tips for exam strategies.

- **1- Tu as du temps à perdre** (activities online, what you watch, free time activities)
- **2- Mon clan, ma tribu** (family, friends and role models)
- **3- Ma vie scolaire** (life at school, opinions and subjects, types of school, rules, future study)
- **4- En pleine forme** (food, healthy living, ailments, tips for a healthy life)

What to revise for listening and reading?

Anything that we have done this year may come up. Use Quizlet, ActiveHub, languagenut, thisschool and your notes to revise vocabulary on the topics and practise exam style questions. The listening will include dictation and reading will include translation into English.

What to revise for writing?

The writing paper has 3 parts:

Part 1: 80-90 word task (4 bullet points) on anything we have covered. There will be 2 choices.

Part 2: 130-150 word task (4 bullet points) on anything we have covered. There will be 2 choices.

Part 3: Translation task into French on anything we have covered.

Review the writings we have done this year and make sure you can justify your opinions, use varied vocabulary, use verbs in 3 time frames (past, present, future) and different pronouns and use some complex language, including a range of conjunctions with the correct word order. You can find examples of writing and translation questions in the textbook on ActiveHub. You can use the textbook, languagesonline, languagenut and thisschool to revise and practise grammar, including word order.

What to revise for speaking?

General conversation questions – 5 minutes – questions on any units that we have covered so far

Use the questions on Google Classroom to practise and make sure you know vocabulary across the topics covered so far and can use verbs in 3 time frames (past, present, future) and different pronouns and use some complex language.

GEOGRAPHY

Your end of year Geography exam will be a full EDEXCEL B GCSE Paper 2 past paper.

Please use the following checklist alongside the GCSE specification [here](#) to direct your revision:

- The UK's Physical Landscape
 - 4.1 Geology and past processes have influenced the physical landscape of the UK
 - 4.2 A number of physical and human processes work together to create distinct UK landscapes
 - 4.3 Distinctive coastal landscapes are influenced by geology interacting with physical processes
 - 4.4 Distinctive coastal landscapes are modified by human activity interacting with physical processes

- 4.5 The interaction of human and physical processes present challenges along coastlines and there are a variety of management options
- 4.6 Distinctive river landscapes have different characteristics formed by interacting physical processes
- 4.7 River landscapes are influenced by human activity interacting with physical processes
- 4.8 Some rivers are more prone to flood than others and there is a variety of river management options

- The UK's Human Landscape
 - 5.1 Population, economic activities and settlements are key elements of the human landscape
 - 5.2 The UK economy and society is increasingly linked and shaped by the wider world
 - 5.3 The context of London influences its functions and structure
 - 5.4 London changes through employment, services and movement of people
 - 5.5 London changing creates challenges and opportunities
 - 5.6 Ways of life in London can be improved by different strategies
 - 5.7 London is interdependent with rural areas, leading to changes in rural areas
 - 5.8 London's changing rural periphery creates challenges and opportunities
- Fieldwork
 - 6.1 Investigating river processes and pressures - River Chess investigation
 - 6.2 Investigating dynamic urban areas - High Wycombe investigation

These are the general topics that will be examined, but please note that more detailed guidance will be given closer to the exams.

GERMAN

Anything we have done this year may come up. You can access the Pearson GCSE textbook on ActiveHub and all vocabulary lists on Quizlet: <https://quizlet.com/class/28797280/materials> You should also look back at the notes in your exercise book and can revise grammar and practise reading and listening on languagenut, and languagesonline. Each chapter of the textbook on ActiveHub also contains exam style reading, listening and writing questions with useful hints and tips for exam strategies.

Students should revise the topics/units below for the end of year exam:

- **Zurück zur Schule** (school subjects, opinions, uniform, types of school, describing the school day, talking about special events in school)
- **Endlich mal Freizeit** (hobbies in general, time phrases and adverbs of frequency music, film, technology, invitations)
- **Meine Welt, deine Welt** (festivals and parties, family, identity)
- **Meine Ecke** (countries, where you live and describing your house and ideal house, places in town, transport)

What to revise for listening and reading?

Anything that we have done this year may come up. Use Quizlet, ActiveHub, languagenut, and your notes to revise vocabulary on the topics and practise exam style questions. The listening will include dictation and reading will include translation into English.

What to revise for writing?

The writing paper has 3 parts:

Part 1: 80-90 word task (4 bullet points) on anything we have covered. There will be 2 choices.

Part 2: 130-150 word task (4 bullet points) on anything we have covered. There will be 2 choices.

Part 3: Translation task into German on anything we have covered.

Review the writings we have done this year and make sure you can justify your opinions, use varied vocabulary, use verbs in 3 time frames (past, present, future) and different pronouns and use some complex language, including a range of conjunctions with the correct word order. You can find examples of writing and translation questions in the textbook on ActiveHub. You can use the textbook, languagesonline, and languagenut to revise and practise grammar, including word order.

What to revise for speaking?

General conversation questions – 5 minutes – questions on any units that we have covered so far

Use the questions on Google Classroom and in the back of the textbook on ActiveHub to practise and make sure you know vocabulary across the topics covered so far and can use verbs in 3 time frames (past, present, future) and different pronouns and use some complex language.

HISTORY

Please revise the following key topics:

Weimar and Nazi Germany, 1918–39

- Key topic 1: The Weimar Republic 1918–29
- Key topic 2: Hitler's rise to power, 1919–33
- Key topic 3: Nazi control and dictatorship, 1933–39
- Key topic 4: Life in Nazi Germany, 1933–39

Notting Hill c1948-c1970

- All content

LATIN

All work covered to date in Suburani Books 1 and 2 **up to the end of Chapter 26.**

This will include but is not limited to:

- All vocabulary covered at the start of the exam period from the OCR GCSE checklist
- Tenses and persons of verbs: present, imperfect, perfect, pluperfect, future (p280)
- Passives: present, imperfect, perfect, pluperfect (p281)
- Subjunctives: imperfect and pluperfect (p282)
- Deponent verbs
- Irregular verbs (p285)
- · Infinitives
- · Imperatives
- · Participles: present active, perfect passive
- Uses of the subjunctive ('cum' clauses, result clauses, indirect commands, indirect questions, purpose clauses)
- · Indirect statements
- Nouns: the forms of all cases of first, second, third, fourth and fifth declension nouns (nom, voc, acc, gen, dat, abl) including neuters (p272). And uses of the cases (p273)
- · Adjectives: comparatives, superlatives and agreement
- · Expressions of time (acc/abl)
- · hic, haec hoc/ille illa illud/is ea id/qui, quae quod (p276-277)

You will be expected to translate and answer comprehension and grammar questions on a Latin passage. You may also be asked to answer some derivation questions.

MATHS

Every student will sit two papers covering Edexcel GCSE Maths topics only. The first of these will be sat in the Queens Hall before Exam Week commences. As a result, students will have time between the two papers to be taught an extra chapter from the Collins textbook; the second paper could ask questions on topics from this chapter, in addition to the chapters previously taught.

Please find attached a revision topic list which follows the Collins textbook (accessible through Collins Hub). Note that topics assessed only in Paper 2 are clearly marked in red.

[Maths Revision List \(Collins\)](#)

MUSIC

Students will need to revise the following for GCSE Music (Edexcel)

- Queen - Killer Queen
- Purcell - Music for a While
- Williams - Star Wars - Main Title/Rebel Blockade runner
- Beethoven - Pathetique
- Spalding - Samba Em Preludio
- Basic theory in order to answer questions identifying rhythms, intervals, chords, keys and cadences
- Dictation (notating short melodic or rhythmic fragments)
- Comparison essay writing

All revision resources are available on Google Classroom

PHYSICAL EDUCATION

The Y10 End of Year exam will cover all Paper 1 and Paper 2 content covered this year. Please see the Chapter titles outlined below.

- Applied Anatomy and Physiology
- Movement Analysis
- Physical Training
- Use of Data
- Sports Psychology

PHYSICS

Topics covered in Year 10 will mainly be tested, **although some topics from Year 9 may be included.**

Energy	Energy stores and transfers
	Calculations of KE and GPE
	Conservation of energy and how it applies to calculations
	Work done and how forces transfer energy
	Power
	Efficiency

	Hooke's Law
	Elastic potential energy, the relevant equations and how to interpret elastic potential energy and spring stiffness from a graph
	Core practical: investigating force and extension of a spring
Electricity	Static electricity
	Uses and dangers of static electricity
	Electric fields
	Current, charge and voltage
	Calculations involving current, charge, voltage and energy
	Resistance and Ohm's Law
	How resistance combines in series and parallel
	IV-characteristics of resistors, bulbs and diodes
	Core practical: investigate the relationship between voltage and current for resistors, bulbs and diodes
	LDRs and thermistors
	Calculating electrical power
	Domestic electricity
	Wiring a plug and domestic electricity safety features, including earth wires and fuses
Electromagnetic Spectrum (EM Waves)	Recall the electromagnetic spectrum in order of wavelength and frequency
	Uses and dangers of EM waves
	Electron energy levels (excitation and de-excitation)
	Infrared radiation and thermal equilibrium
	Blackbody radiation (the curves of intensity vs wavelength and how they vary with temperature)
	Core practical: investigate and compare the rate of emission and/or absorption of IR radiation for dark and light objects
Magnetism	Magnetic field patterns and how to plot them
	Electromagnets
	The motor effect

	Applications of the motor effect (including motors and loudspeakers)
	Induction
	Dynamos, alternators and microphones
	Transformers
	The national grid
Mechanics	Speed, distance and time calculations
	Scalars and vectors
	Addition of vectors by scale diagrams
	Acceleration
	Displacement-time and velocity-time graphs
	Newton's Laws
	Core practical: investigating force and acceleration (Newton's 2nd Law)

RELIGIOUS STUDIES

Christian Beliefs

- **Nature of God** - the nature of Christian God
- **The Omni's of God** - God as omnipotent, loving and just and the problem of evil and suffering
- **Trinity** - the oneness of God and the Trinity: Father, Son and Holy Spirit
- **Creation** - different Christian beliefs about creating including the role of Word and Spirit (John 1:1-3 and Genesis 1:1-3)
- **Incarnation** - Christian beliefs on the birth of Jesus Christ
- **Crucifixion** - Different Christian beliefs surrounding the crucifixion of Jesus Christ
- **Life after Death Resurrection** - Resurrection and life after death
- **Judgement** - Judgement, heaven and hell
- **Sin and Salvation** - Sin, including original sin. The meaning of salvation, including law, grace and Spirit
- **Role of Christ in Salvation** - The role of Christ in salvation including the idea of atonement

Christian Practices

- **Worship** - Different forms of worship and their significance: liturgical, non-liturgical and informal, including the use of the Bible. Private worship
- **Prayer** - Prayer and its significance, including the Lord's Prayer, set prayers and informal prayer
- **Sacrament: Baptism** - The role and meaning of the sacraments: the meaning of sacrament, the sacrament of baptism and its significance for Christians; infant and believers' baptism; different beliefs about infant baptism
- **Sacrament: Eucharist** - the sacrament of Holy Communion/Eucharist and its significance for Christians, including different ways in which it is celebrated and different interpretations of its meaning
- **Pilgrimage** - The role and importance of pilgrimage and celebrations including: two contrasting examples of Christian pilgrimage: Lourdes and Iona

- **Festivals** - the celebrations of Christmas and Easter, including their importance for Christians in Great Britain today
- **Role of the Church** - The role of the Church in the local community, including food banks and street pastors
- **The Mission of Christianity** - The place of mission, evangelism and Church growth
- **The Worldwide Church** - The importance of the worldwide Church including: working for reconciliation, how Christian churches respond to persecution, the work of one of the following: Catholic Agency For Overseas Development (CAFOD), Christian Aid, Tearfund

Islamic Beliefs

- **Foundations of Faith** - The six articles of faith in Sunni Islam and five roots of Usul ad-Din in Shi'a Islam, including key similarities and differences
- **Tawhid** - Tawhid (the Oneness of God), Qur'an Surah 112
- **The Nature of Allah** - The nature of God: omnipotence, beneficence, mercy, fairness and justice/Adalat in Shi'a Islam, including different ideas about God's relationship with the world: immanence and transcendence
- **Angels** - Angels, their nature and role, including Jibril and Mika'il
- **Predestination** - Predestination and human freedom and its relationship to the Day of Judgement
- **Life After Death**- Akhirah (life after death), human responsibility and accountability, resurrection, heaven and hell
- **Prophethood** - Risalah (Prophethood) including the role and importance of Adam, Ibrahim and Muhammad
- **Holy Books** - The holy books: Qur'an: revelation and authority. The Torah, the Psalms, the Gospel, the Scrolls of Abraham and their authority
- **Imamate** - The imamate in Shi'a Islam: its role and significance

Islamic Practices

- **Introduction** - Five Pillars of Sunni Islam and the Ten Obligatory Acts of Shi'a Islam (students should study the Five Pillars and jihad in both Sunni and Shi'a Islam and the additional duties of Shi'a Islam)
- **Shahadah** - Shahadah: declaration of faith and its place in Muslim practice
- **Salah** - Salah and its significance: how and why Muslims pray including times, directions, ablution (wudu), movements (rak'ahs) and recitations; salah in the home and mosque and elsewhere; Friday prayer: Jummah; key differences in the practice of salah in Sunni and Shi'a Islam, and different Muslim views about the importance of prayer.
- **Sawm** - Sawm: the role and significance of fasting during the month of Ramadan including origins, duties, benefits of fasting, the exceptions and their reasons, and the Night of Power, Qur'an 96:1-5
- **Zakah** - Zakah: the role and significance of giving alms including origins, how and why it is given, benefits of receipt, Khums in Shi'a Islam
- **Hajj** - Hajj: the role and significance of the pilgrimage to Makkah including origins, how hajj is performed, the actions pilgrims perform at sites including the Ka'aba at Makkah, Mina, Arafat, Muzdalifah and their significance
- **Jihad** - Different understandings of jihad: the meaning and significance of greater and lesser jihad; origins, influence and conditions for the declaration of lesser jihad
- **Festivals**- Festivals and commemorations and their importance for Muslims in Great Britain today, including the origins and meanings of Id-ul-Adha, Id-ul-Fitr, Ashura

SPANISH

Anything we have done this year may come up. You can access the Pearson GCSE textbook on ActiveHub. You should also look back at the notes in your exercise book and can revise grammar and practise reading and listening on languagenut and languagesonline.. Each chapter of the textbook on ActiveHub also contains exam style reading, listening and writing questions with useful hints and tips for exam strategies.

1. **Unit 1 Divértete (free time, technology)**
2. **Unit 2 Viajes (travel and holidays)**
3. **Unit 3 Mi gente, mi mundo (family and friends, identity)**
4. **Unit 4 Mi estilo de vida (food, health)**

What to revise for listening and reading?

Anything that we have done this year may come up. Use Quizlet, ActiveHub, languagenut and your notes to revise vocabulary on the topics and practise exam style questions. The listening will include dictation and reading will include translation into English.

What to revise for writing?

The writing paper has 3 parts:

Part 1: 80-90 word task (4 bullet points) on anything we have covered. There will be 2 choices.

Part 2: 130-150 word task (2 bullet points) on anything we have covered. There will be 2 choices.

Part 3: Translation task into Spanish on any topic that we have covered.

Review the writings we have done this year and make sure you can justify your opinions, use varied vocabulary, use verbs in 3 tenses and different persons and use some complex language. You can find examples of writing and translation questions in the textbook on ActiveHub. You can use the textbook, languagesonline and languagenut to revise and practise grammar, including word order.

What to revise for speaking?

General conversation questions – 5 minutes – questions on any units that we have covered so far

Use the questions on Google Classroom to practise and make sure you know vocabulary across the topics covered so far and can use verbs in 3 time frames (past, present, future) and different pronouns and use some complex language.