



De Lisle College

Advent Term Assessment Information

Year 12 – November 2024

Year 12 Advent assessment timetable - week 1

	Monday 11th November		Tuesday 12th November		Wednesday 13th November		Thursday 14th November		Friday 15th November
Period 1	12C Maths paper 1	Period 1	Year 12 Graphics	Period 1	12C Maths paper 2	Period 1	Year 12 Graphics	Period 1	Year 12 Philosophy of Religion
Period 2	12B Maths paper 1	Period 2		Period 2	12i Physics HFS	Period 2		Period 2	
Period 3	Further Maths	Period 3		Period 3	12B Chem	Period 3		Period 3	
					12D Maths paper 2				
Period 4	Year 12 Graphics	Period 4	12D Physics MUS	Period 4	12D Chem	Period 4	12D Physics HFS	Period 4	
					12B Maths paper 2				
Period 5	12D Maths paper 1	Period 5		Period 5	12i Physics MUS	Period 5		Period 5	

Year 12 Advent assessment timetable - week 2

	Monday 18th November		Tuesday 19th November		Wednesday 20th November		Thursday 21st November		Friday 22nd November
Period 1		Period 1		Period 1		Period 1	Yr12 Business Paper 1	Period 1	
Period 2	French paper 2 - Auberge	Period 2	12B Geog Paper 1	Period 2	Year 12 Graphics	Period 2	12 B chem paper 2	Period 2	Year 12 CS - Part 2 - Programming
Period 3	Year 12 Graphics	Period 3	12D Geog Paper 1	Period 3	Year 12 Christianity	Period 3	12 CS - MJA - Part 1 - Theory	Period 3	
Period 4		Period 4		Period 4		Period 4	12 D chem paper 2	Period 4	
							Year 12 Graphics		
Period 5	Year 12G History Civil War	Period 5		Period 5	Year 12 Media - Part 1 - LTO	Period 5	7R History MCQ	Period 5	

Year 12 Advent assessment timetable - week 3

	Monday 25th November		Tuesday 26th November		Wednesday 27th November		Thursday 28th November		Friday 29th November
Period 1	Y12 Physical Education - Section A	Period 1	Y12B Geography Paper 2 NWH	Period 1	Y12 Biology 12BiC Paper 2	Period 1	Year 12D Psychology	Period 1	Trust inset day
			Year 12 Physical Education - Section B		Year 12 Graphics				
			Year 12 Media - Part 2 ATH		Yr12 Drama Assessment 2				
Period 2	Yr12 Economics	Period 2		Period 2	Y12 Biology 12BiA Paper 1	Period 2		Period 2	
			Year 12 Eng Lit Section A Lear		Year 12 Ethics exam				
	Year 12 Eng Lit Section C Gatsby								
Period 3		Period 3	Y12D Geography Paper 2	Period 3	Yr 12 Soc Assessment	Period 3		Period 3	
Period 4	Year 12 Graphics	Period 4	Y12 Biology 12BiC Paper 1	Period 4		Period 4	Year 12F Psychology	Period 4	
			Y12 Physical Education - Section C				Y12 Biology 12BiA Paper 2		
			Y12 English Language and Literature						
Period 5		Period 5		Period 5		Period 5	Y12 English Language and Literature	Period 5	



Subject		A level Economics – Yr12		
Title/Topic		Format	Length	WC
Paper 1 – The Economic Problem & Individual decision making		Exam Paper	1 hours	Monday 25 th November 2024

My Advent assessment will test my knowledge on...

Multiple choice questions, plus a combination of short and long essays responses

Business maths

Percentage change: increase and decrease – $\frac{\text{new-old}}{\text{old}} \times 100 = X\%$
(Use 000, of thousands, 000,000 of millions)

Unit 4.1.1 Economic methodology & the economic problem

- Economic methodology – social science, positive & normative statements, value judgements on economic decision making.
- Nature and purpose of economics – what to produce, how to produce, who benefits.
- Economic resources – land. Labour, capital & enterprise / scarce resources / scarcity – choice & allocation of resources / opportunity cost
- Production possibility diagrams – trade-offs, opportunity costs, resource allocation, economic growth

Unit 4.1.2 – Price determination in a competitive market

- Factors which cause shifts in demand & supply curve
- Price elasticity / Income /supply & Cross elasticity – calculations, normal & inferior goods, substitute & complementary goods
- Determinant of supply of goods & services – relationship between quantity of supply & price, determinant of shift in supply curve, implications of higher prices imply high profit.
- Interaction of demand & supply determines the equilibrium price.
- Equilibrium & disequilibrium – excess demand & excess supply leads to price changes.
- Interrelationship between markets – market changes & their effect on other markets
- Joint demand, demand for substitutes, composite demand, derived demand & joint supply

Unit 4.1.2 – Individual economic decision making.

- Rational economic decision making and economic incentives: utility theory and maximisation.
- Cognitive bias – bounded rationality, rules of thumb anchoring, social norms,
- Asymmetric information
- Nudges and default choices



What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Use the notes from lessons and activities to consolidate notes
2. Create revision cards and mind maps to connect key topics and ideas
3. Create flash cards to test yourself with friends & family
4. Use previous paper questions, topic test questions, mark schemes and examiner reports to develop answers
5. AQA A-Level Economics Revision guide complete activities and test questions
6. Microeconomics Booklet reading & note taking
7. Use post-it notes for key terms and definitions
8. Copy, test, repeat
9. Revision apps such as Quizlet, Padlet, Popplet Lite for mind maps

What useful websites/resources could I use to help me prepare?

Online study notes to support core topics in A-Level Economics are available and you may wish to bookmark these for future revision.

Tutor2U – A-level Economics

<https://www.tutor2u.net/economics/reference/understanding-business-revenues-5-importance-of-marginal-revenue>

<https://www.tutor2u.net/economics/reference/as-microeconomics-study-notes-topic-listing>

<https://www.tutor2u.net/economics/reference/behavioural-and-neo-classical-economics-essay-plan>

Econ Plus Dal

Learn techniques for taking your A-level Economics exam with topic revision, exam responses techniques and answers

<https://www.econplusdal.com/>

Seneca

<https://senecalearning.com/en-GB/>

Padlet Resources

Here are some examples of resources available on Padlet:

<https://padlet.com/jstigallmd/economics>

[https://padlet.com/ctsmiler/AS Economics](https://padlet.com/ctsmiler/AS_Economics)

<https://padlet.com/ciansweeney/economicsmaterials>



Subject	A-Level Art and Design: Fine Art		
Title/Topic	Format	Length	WC
Portfolio	Continuous	N/A	N/A

In this Advent assessment I will be asked to show I can...

The Advent term of year 12 is the skill building period of the A-Level course. As such you have already carried out work in varied media, techniques and subject matter. This will continue throughout the second part of the Advent term, including during the assessment window. You will not sit an exam in this period, instead you will continue working as guided by your teacher and will ultimately present the term's work as a portfolio for assessment to be handed in on the deadline of Thursday 28th November.

We will be looking for evidence of the following assessment objectives being met:

- Develop ideas through sustained and focused investigations informed by contextual and other sources, demonstrating analytical and critical understanding.
- Explore and select appropriate resources media, materials, techniques and processes, reviewing and refining ideas as work develops.
- Record ideas, observations and insights relevant to intentions, reflecting critically on work and progress.
- Present a personal and meaningful response that realises intentions and, where appropriate, makes connections between visual and other elements.

What should I do to revise and prepare for this assessment?

- Continue to work hard and apply yourself in your lessons.
- Ensure that you complete every task to the best of your ability.
- Complete homework tasks to the best of your ability and submit on time.
- Listen carefully to advice and act on any feedback that you are given.
- Revisit previous work to see whether you can now make any improvements to it.



Physical Education – Section A	1 written exam (multiple choice, short and long answer questions) 35 marks	45 mins	25/11/24 P1
Physical Education – Section C	1 written exam (multiple choice, short and long answer questions) 35 marks	45 mins	26/11/24 P4
Physical Education – Section B	1 written exam (multiple choice, short and long answer questions) 35 marks	45 mins	27/11/24 P1

In this assessment the topics I will be assessed on are...

Section A

- Diet and nutrition
- Training types
- Fitness testing
- Periodisation
- PNF
- Muscle types and muscle fibres
- Motor neurones
- Bones, joints, movement.
- Muscles

Section B

- Types of practice
- Transfer of skill
- Skill classifications
- Learning plateau
- Stages of learning
- Types of feedback

Section C

- Socialisation
- Benefits of Increased participation
- Preindustrial sport
- Benefits of participation
- Barriers to participation
- Use of technology in Sport



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What should I do to revise and prepare for this assessment?
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To prepare for this assessment:

- | |
|--|
| <ol style="list-style-type: none">1. Use Section specific booklets (Section A, B and C)2. Knowledge Organisers3. Dynamic Learning book |
|--|

What useful websites/resources could I use to help me prepare?

- | |
|---|
| <ol style="list-style-type: none">1. Revision notes2. A-level booklets3. Knowledge Organisers4. Dynamic Learning PowerPoint (available on the student drive) |
|---|



Subject	Further Maths		
Title/Topic	Format	Length	WC
Pure Paper 1	Written Assessment	60mins	11 th Nov

In this Advent assessment I will be asked to show I can...

- Introduction to matrices
- Arithmetic with matrices
- Transformations of matrices
- Invariant points and lines
- Introduction to complex numbers
- Arithmetic with complex numbers
- Representing complex numbers geometrically
- Factor theorem & division of polynomials
- roots of polynomials - addition and product of roots
- solving polynomial equations with complex roots.
- Sequences and series and using standard results.

What should I do to revise and prepare for this assessment?



To prepare for this assessment:

1. Review the work you have completed in class this term. Work through the practice questions you have been provided after each lesson again so that you have a deep understanding of all the topics covered.
2. Complete and revisit the integral assessments for the first two units covered this year.
3. Complete questions from your text book.

What useful websites/resources could I use to help me prepare?

www.integralmaths.org

Course Text Book

<https://sites.google.com/view/tlmaths/home/a-level-further-maths/teaching-order-year-1>

- Please be aware that the teaching order is different on the final link, but if you search for the topics there are useful videos.



Subject	Maths		
Title/Topic	Format	Length	WC
Paper 1	Written assessment	45 mins	11 th Nov
Paper 2	Written assessment	45 mins	11 th Nov

In this Advent assessment I will be asked to show I can...

Unit 1 – Algebra & Functions

- Essential manipulations of algebra
- Using the laws of indices
- manipulating surds
- Solving quadratics equations and work with quadratic graphs
- Solving simultaneous equations
- Solving linear and quadratic inequalities including using graphs
- Using graphs of functions and sketching simple transformations of graphs.

Unit 2 – Coordinate Geometry

- Solve problems with coordinate geometry in the (x, y) plane by understanding the equation of a straight line
- Parallel and perpendicular lines
- Find lengths and areas using equations of straight lines
- Find the midpoint of a line segment
- Understand and use the equation of a circle and be able to use the properties of chords and tangents.



Unit 3 – further algebra

- Simplifying algebraic fractions
- Algebraic division – polynomial division by $(ax+b)$
- factor theorem – including finding unknown coefficients
- Proof - including exhaustion, deduction and disproof by counter example

What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Review the work you have completed in class this term. Work through the practice questions you have been provided after each lesson again so that you have a deep understanding of all the topics covered.
2. Complete and revisit the integral assessments for the first three units covered this year.
3. Complete questions from your text book (provided within the powerpoints)

What useful websites/resources could I use to help me prepare?



www.integralmaths.org

<https://www.mathsgenie.co.uk/newalevel2.php>

<https://www.revisely.com/alevel/maths/edexcel/pure-questions>



Subject	Religious Education		
Title/Topic	Format	Length	WC
Paper 1: Christianity	1 xAO1 1xAO2	1 hour	18 th November
Paper 2: Philosophy	1xAO1 1xAO2	1 hour	11 th November
Paper 3: Ethics	1xAO1 1xAO2	1 hour	25 th November

In this Advent assessment I will be asked to show I can...

Christianity

Theme 1: Religious figures and sacred texts

A. Jesus – his birth: Consistency and credibility of the birth narratives (Matthew 1:18-2:23; Luke 1:26-2:40); harmonisation and redaction; interpretation and application of the birth narratives to the doctrine of the incarnation (substantial presence and the kenotic model).

B. Jesus – his resurrection: The views of Rudolf Bultmann and N.T. Wright on the relation of the resurrection event to history; interpretation and application to the understanding of death, the soul, resurrected body and the afterlife, with reference to Matthew 10:28; John 20-21; 1 Corinthians 15; Philippians 1:21-24.

Issues for analysis and evaluation will be drawn from any aspect of the content above, such as:

- The extent to which the birth narratives provide insight into the doctrine of the incarnation.
- The relative importance of redaction criticism for understanding the biblical birth narratives.
- The nature of the resurrected body.
- The historical reliability of the resurrection.

Philosophy

Theme 1: Arguments for the existence of God – inductive



A. Inductive arguments – cosmological: Inductive proofs; the concept of ‘a posteriori’. Cosmological argument: St Thomas Aquinas’ first Three Ways - (motion or change; cause and effect; contingency and necessity). The Kalam cosmological argument with reference to William Lane Craig (rejection of actual infinities and concept of personal creator).

B. Inductive arguments – teleological: St Thomas Aquinas’ Fifth Way - concept of governance; archer and arrow analogy. William Paley’s watchmaker - analogy of complex design. F. R. Tennant’s anthropic and aesthetic arguments - the universe specifically designed for intelligent human life.

C. Challenges to inductive arguments: David Hume - empirical objections and critique of causes (cosmological). David Hume - problems with analogies; rejection of traditional theistic claims: designer not necessarily God of classical theism; apprentice god; plurality of gods; absent god (teleological). Alternative scientific explanations including Big Bang theory and Charles Darwin’s theory of evolution by natural selection.

Issues for analysis and evaluation will be drawn from any aspect of the content above, such as:

- Whether inductive arguments for God’s existence are persuasive.
- The extent to which the Kalam cosmological argument is convincing.
- The effectiveness of the cosmological/teleological argument for God’s existence.
- Whether cosmological/teleological arguments for God’s existence are persuasive in the 21st century.
- The effectiveness of the challenges to the cosmological/teleological argument for God’s existence.
- Whether scientific explanations are more persuasive than philosophical explanations for the universe’s existence.

Ethics



Theme 1: Ethical Thought

A. Divine Command Theory: God as the origin and regulator of morality; right or wrong as objective truths based on God's will/command, moral goodness is achieved by complying with divine command; divine command a requirement of God's omnipotence; divine command as an objective meta-physical foundation for morality. Robert Adams' 'Modified Divine Command Theory' (divine command based on God's omnibenevolence). Challenges: the Euthyphro dilemma (inspired by Plato); arbitrariness problem (divine command theory renders morality as purely arbitrary); pluralism objection (different religions claim different divine commands).

B. Virtue Theory: Ethical system based on defining the personal qualities that make a person moral; the focus on a person's character rather than their specific actions; Aristotle's moral virtues (based on the deficiency; the excess and the mean); Jesus' teachings on virtues (the Beatitudes). Challenges: virtues are not a practical guide to moral behaviour; issue of cultural relativism (ideas on the good virtues are not universal); virtues can be used for immoral acts.

C. Ethical Egoism: Agent focused ethic based on self-interest as opposed to altruism; ethical theory that matches the moral agent's psychological state (psychological egoism); concentration on long term self-interests rather than short term interests; Max Stirner, is self-interest the root cause of every human action even if it appears altruistic? Rejection of egoism for material gain; union of egoists. Challenges: destruction of a community ethos; social injustices could occur as individuals put their own interests first; a form of bigotry (why is one moral agent more important than any other?).

Issues for analysis and evaluation will be drawn from any aspect of the content above, such as:

- Whether morality is what God commands.
- Whether being a good person is better than just doing good deeds.
- Whether Virtue Theory is useful when faced with a moral dilemma.
- The extent to which Ethical Egoism inevitably leads to moral evil.



- The extent to which all moral actions are motivated by self-interest.
- Whether one of Divine Command Theory, Virtue Theory or Ethical Egoism is superior to the other theories

What should I do to revise and prepare for this assessment?

Follow the guidance provided in class and through homework about revision techniques and exam technique.

Make mind maps or revision pages for each area of the specification.

Use the knowledge organisers to learn key ideas

What useful websites/resources could I use to help me prepare?



Use the textbooks provided for each strand



Subject		A Level Geography		
Title/Topic		Format	Length	WC
Paper 1- Tectonic Processes and Hazards		Maths questions 4 marks 6 marks and 12 marker	45 mins	18 th Nov
Paper 2- Globalisation		Maths questions 4 marks 6 marks and 12 marker		25 th Nov

In this Advent assessment I will be asked to show I can...

Paper 1 Tectonics

- Disaster risk equation
- Relationship between earthquakes and aftershocks
- Secondary hazards of volcanic eruptions
- Patterns of earthquake distribution
- Disasters at different plate boundaries

Paper 2 Globalisation

- The impacts of TNC investment
- Working out percentage change
- How governments encourage globalisation
- The positive and negatives for the global shift
- How ICT and communications accelerate globalisation

What should I do to revise and prepare for this assessment?

You should prepare by:

- Mind mapping key concepts and case studies
- Flash cards for key concepts
- Consolidation paragraphs using your PLC or mind maps
- Audio recording of your own explanations, listen back

What useful websites/resources could I use to help me prepare?



Hodder Book 1

Physics and maths tutor [Edexcel Geography A-level: Globalisation Revision - PMT \(physicsandmathstutor.com\)](https://www.physicsandmathstutor.com/Edexcel-Geography-A-level-Globalisation-Revision-PMT/)

PLCs

Exercise book notes



Subject	Biology A level		
Title/Topic	Format	Length	
Paper 1 – Biology	Written	45 mins	
Paper 2 – Biology	Written	45 mins	

In this Advent assessment I will be asked to show I can...

Paper 1

- Describe the structure of the cell surface membrane and explain its properties (spec point 2.2)
- Describe the processes of both passive and active transport of substances across a membrane – describe the role of carrier and channel proteins in this (spec point 2.4)
- Describe the structure of DNA (spec point 2.5)
- Explain how DNA is replicated and explain Meselson and Stahl's experiment (spec point 2.11)
- Describe how protein synthesis occurs (spec point 2.6) and compare it to DNA replication.
- Calculate BMI and use other indicators to determine if someone is at risk of CVD (spec point 1.16)
- Describe benefits and the use of treatments for CVD (spec point 1.18)
- Describe the structure of an amino acid and the formation of peptide bonds (spec point 2.9)
- Understand and describe the blood clotting cascade and interpret data about problems with the process (spec point 1.6)
- Understand patterns of inheritance and use Punnett squares to show monohybrid inheritance (spec point 2.13)
- Explain methods of screening embryo's (spec point 2.15)

Paper 2

- Describe and explain the double circulatory system in mammals (spec point 1.4)
- Calculate magnification
- Describe the structure of blood vessels and relate this to their function (spec point 1.3)



- Describe how to investigate the effect of a substance on the heart rate of Daphnia (Core practical 1)
- Describe how cystic fibrosis affects cell membranes and the consequences of this (spec point 2.14)

What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Use your processes book and do look/cover/write/check to learn key processes.
2. Use your revision guide.
3. Make flash cards for key knowledge and definitions.
4. Use Seneca learning.
5. Crash course videos on topics

What useful websites/resources could I use to help me prepare?

Seneca learning

[Free Homework & Revision for A Level, GCSE, KS3 & KS2 \(senecalearning.com\)](https://www.senecalearning.com)

Your revision guide – use the revision guide suggested to you by your teacher.



Subject A level (Yr12) Business			
Title/Topic	Format	Length	Date
Paper 1 – Unit 1: What is business? and Unit 2: Managers, leadership and decision making	Exam Paper	1 hour (+ 15min Extra Time)	Thursday 21 st November

My Advent assessment will test my knowledge on...

Multiple choice questions, plus a combination of short and long essays responses

Business maths

Percentage change: increase and decrease – $\frac{\text{new-old}}{\text{old}} \times 100 = X\%$

(Use 000, of thousands, 000,000 of millions)

Topic Covered: Unit 1 – What is business?

- Why businesses exist?
- Costs, revenue and profit
- Business growth – sole trader, Ltd, Plc
- Changing objectives based on business form
- Mission, vision, aims & objectives
- Measurements and importance of profit
- Different forms of business – sole traders, LTD's, PLC's, non-for-profit, market capitalisation, dividends, ordinary share capital
- Influences on objectives
- External operating environment – PESTLE, competitors

Topic Covered: Unit 2 – Managers, leadership & decision making

- What managers do – managers roles and responsibilities
- The value of decision making scientific and intuition
- Influences on decision making – ethics, mission resources, objectives, external environment
- Role and importance of stakeholders – mapping, power, interest, conflict, managing relationships
- Decision making – using data to support decision, intuitive decision making,
- Decision trees and Critical Path analysis



What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Use the booklets from lessons and exercise books to consolidate notes and create revision cards and mind maps to connect key topics and ideas
2. Use the Revision Guides loaned to you to help for revision
3. Create or buy flash cards to test yourself with friends & family
4. Use previous paper questions, topic test and PPE questions, mark schemes and examiner reports to develop answers
5. Use the AQA A-level Business Revision guide and textbook chapter reading
6. Use Past Papers to develop exam question exposure & complete past paper questions from the Home Learning Resource Centre
7. Revision apps such as Quizlet, Padlet, Popplet Lite for mind maps
8. AQA A-level Business Textbook - Marcouse reading, complete activities and test questions

What useful websites/resources could I use to help me prepare?

Online study notes to support core topics in A-Level Business are available and you may wish to bookmark these for future revision.

Tutor2U – A-level Business

<https://www.tutor2u.net/business/collections/aqa-a-level-business-study-resources-what-is-business>

<https://www.tutor2u.net/business/collections/worked-answers-aqa-a-level-business-exam-papers>

<https://www.tutor2u.net/business/reference/study-notes>

Taking The Biz

Learn techniques for taking your A-level Business exam with topic revision, exam responses techniques and answers

<https://www.youtube.com/channel/UCIIJ4pk3uzyWoeoBkGs0hxQ>

Padlet Resources

Here are some examples of resources available on Padlet:

<https://padlet.com/cpcooke/smaalevelbus>

https://padlet.com/davey_raa/jkl6cjo9tcno

<https://padlet.com/lucienneevans1/t4226cpfq6fv>



Subject	Chemistry A level	
Title/Topic	Format	Length
Paper 1 –Chemistry	Written	50 mins
Paper 2 – Chemistry	Written	50 mins

In this Advent assessment I will be asked to show I can...

Paper 1

- Identify isotopes and use abundance data to calculate relative atomic masses.
- Deduce the number of subatomic particles for given atoms and ions of an element.
- Construct balanced chemical equations and use state symbols
- Calculate amounts of substance in moles when provided with mass, volume or concentration data.
- Determine empirical formula and molecular formula when given composition by mass and percentage composition data
- Use oxidation numbers to identify species which have been oxidised or reduced
- Define oxidation and reduction in terms of loss or gain of electrons
- Describe how to carry out and be able to analyse the results of a titration
- Describe and explain the organisation of elements on the periodic table
- Explain trends in ionisation energy across a period and down a group

Paper 2

- Use the ideal gas equation to calculate quantities including volume, moles, pressure and temperature.
- Calculate the formula of a hydrated salt from experimental results
- Carry out reacting mass calculations.
- Comment on the sustainability of a reaction from atom economy and percentage yield data
- Determine the arrangement of electrons in atoms or ions of an element
- Predict bond angles and the shapes of simple molecules
- Identify the bonding in a compound and represent it using dot and cross diagrams



- Explain trends in reactivity for group 2 and 17 elements
- Explain the properties of matter including melting and boiling points and link these to structure and bonding
- Explain on the anomalous properties of water

What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Ensure you have reviewed material covered in lessons and attempted summary questions
2. Attempt exam questions in the text book – answers available on student drive
3. Use your revision guide.
4. Make flash cards for key knowledge and definitions.

What useful websites/resources could I use to help me prepare?

Seneca learning

[Free Homework & Revision for A Level, GCSE, KS3 & KS2 \(senecalearning.com\)](https://www.senecalearning.com/)

Your revision guide – use the revision guide suggested to you by your teacher.

e.g. OCR chemistry : https://www.amazon.co.uk/OCR-Level-Chemistry-Revision-Guide/dp/0198351992/ref=sr_1_8?dchild=1&keywords=ocr+chemistry+a+revision+guide&qid=1634050174&sr=8-8

CGP work book: https://www.amazon.co.uk/New-Level-Chemistry-2018-Practice/dp/1782949224/ref=pd_bxgy_img_1/261-7161097-6731553?pd_rd_w=5ONYR&pf_rd_p=c7ea61ca-7168-47e3-9c8b-d84748f5b23c&pf_rd_r=8EQ3M3FC7D1EPWVZJ4XR&pd_rd_r=a4a78a4b-b279-4bd0-842e-9faff976a75a&pd_rd_wg=EBXSa&pd_rd_i=1782949224&psc=1



Subject		Year 12 Computer Science	
Title/Topic	Format	Length	WC
Paper 1 – Theory Topics	Written Paper, exam style questions	50 mins	
Paper 2 – Programming Techniques	Written paper with coding-like questions	50 mins	

In this Advent assessment I will be asked to show I can...

Part 1 – Computer Systems Theory

- Describe the main components of a CPU and their purpose
- Describe the stages of the FDE cycle, including how different registers are used at each stage
- Identify the main features of Von Neumann Architecture and Harvard Architecture
- Explain the differences between CISC and RISC architecture
- Explain how co-processors such as GPUs can improve
- Interpret and write assembly instructions using Little Man Computer
- Describe the relationship between CPU, Primary memory and secondary storage
- State the properties of the different types of primary memory (RAM and ROM)
- State the properties of the main types of secondary storage
- Describe the purpose of the operating system
- Explain the FIVE main features of an operating system
- Describe the memory management techniques used by the OS – paging, segmentation and virtual memory
- Describe the scheduling algorithms used to manage CPU time

Paper 2 – Problem Solving and Programming

Combining programming skills together to solve problems.

You will have specific questions on-

- Variables and Data Types:**
 - Understanding local and global variables.
 - Variable naming rules and conventions.
- Programming Logic and Pseudocode:**
 - Designing procedures and conditional statements.
 - Writing pseudocode to solve problems.
- Modular Programming:**
 - Advantages of using a modular approach in software development.
- Algorithmic Thinking:**
 - Evaluating pseudocode and algorithms.
- Programming Control Flow:**
 - Implementing control flow mechanisms like branching and jumping in code.
- Functions and Procedures:**
 - Writing functions and procedures to perform specific tasks.
- Data Handling:**



- Working with arrays and 2-dimensional arrays.
- 8. **Data Conversion and Estimation:**
 - Converting and estimating data values.
- 9. **Variable Types:**
 - Understanding floating-point variables.
- 10. **Problem Solving and Algorithm Design:**
 - Developing algorithms to solve real-world problems.
- 11. **Discounts and Receipt Calculation:**
 - Creating algorithms to determine discounts and calculate receipts.

What should I do to revise and prepare for this assessment?

- Complete practice questions in the lesson booklets
- Re-watch craigndave videos for theory topics
- Complete relevant programming challenges utilising the skills listed above

What useful websites/resources could I use to help me prepare?



All resources and files are available on the Student OneDrive



Subject		French		
Title/Topic		Format	Length	WC
Paper 1 – Listening, reading and writing		Multiple choice answers, written answers, summary, translation into English, translation into French	1 hour 45 minutes	18 th November
Paper 2 – Writing		L'auberge espagnole essay	1 hour	18 th November

My Advent assessment will test my knowledge on...

Paper 1

- Showing my understanding of the vocabulary for sub theme 1 (La famille en voie de changement) through listening and reading exercises.
- Summarising the key points of a text/recording.
- Translating vocabulary accurately from French to English.
- Translating vocabulary accurately from English to French.

Paper 2

- Showing my understanding of the film l'auberge espagnole.
- Analysing key characters/techniques.
- Evidencing my points using key scenes from the film.
- Including complex sentence structures in my essay.



What should I do to revise and prepare for this assessment?

To prepare for this assessment:

Paper 1

1. Revise the passive vocabulary lists for sub-theme 1.
2. Revise the active vocabulary lists for sub-theme 1.
3. Complete any outstanding exercises in the AQA text book for sub-theme 1.
4. Complete the interactive exercises for unit 1 on Kerboodle.
5. Look back over the PowerPoints completed in lessons to recap key structures and grammar points.

Paper 2

1. Revise the texts studied in the l'auberge espagnole work booklet.
2. Complete any outstanding exercises.
3. Revise the paragraphs I have written.
4. Watch the film.
5. Look back the essay writing resources.
6. Revise the phrases from the active vocabulary lists.

What useful websites/resources could I use to help me prepare?

- Language Nut to practise reading, listening, translation and grammar exercises.
- Kerboodle A-level text book to practise reading, listening and translation exercises.



Subject	A Level Graphic Design		
Title/Topic	Format	Length	WC
Type as metaphor	Practical	10 hours	

In this Advent assessment I will be asked to show I can...

Assessment Objective 1: DEVELOP: Develop ideas through sustained and focused investigations informed by contextual and other sources, demonstrating analytical and critical understanding.

You need to use your knowledge of typography and typographers to develop a series of compositions using type, colour, texture and shape only. Please remember that symbols, punctuation marks and other abbreviations such as \$ £ % @ # > ? are all parts of a typeface and therefore can be used to create mood, atmosphere, direction, perspective and tonal values in your compositions. This can be achieved by overlaying symbols and letters and by their proximity to each other.

What should I do to prepare for this assessment?

Task brief for 'Type as Metaphor.

Find three texts from magazines/journals/books/on-line/ lyrics/ poetry, which deal with a particular issue you care deeply about, an emotive lyric or poem that moves you, or some piece of text that you have some affiliation towards. Examples of topics could be: global warming and its affect on hurricanes, medical issues facing the older generation, race relations, violence against women, censorship, globalization, etc. These are only examples of topics.

After reading all three texts related to your chosen topic, select one as your primary source, or a re-edit of the three into one. Brainstorm ideas in order to find visually metaphoric possibilities. Take a large sheet of paper, write down the main theme or topic and draw a circle around it. Then, map other words and phrases that in some way relate to the central theme (sub-themes, activities, images, physical attributes, emotional responses, other tangents to generate ideas). Form tributary lines, directionals, and new words and phrases. Develop compositions that resonate (have the feel of, suggest, evoke) a few of the themes, sub-themes and other visual/semantic references that you have discovered. This project will be realized entirely with type, colour, texture and shape. It is divided into 4 parts:



1. **Paragraphs / Phrases.** Edit your text down to a few paragraphs with key phrases. Then create a composition, your choice of dimensions, which uses type as metaphor to visually communicate your analysis, or point(s) of view on the subject/text. Experiment with a variety of approaches and tools. Don't assume first ideas and solutions are the best. Take chances, you can always tighten things up later. Feel free to sketch ideas and use techniques you played with in first project like photocopying, using different materials/printing techniques, as well as the computer. Solutions need not be technically complex.
2. **Words.** Next, select a series of words from your phrases. Create a second composition, continuing to manipulate type as metaphor. You should already be thinking in terms of creating a series, progression, or narrative from one composition to the next.
3. **Syllables.** Edit the words down to a series of syllables. In this composition, literal meanings have less significance. Again, experiment with type and composition, but now focus further on the expression through the letterforms themselves, as well as through their arrangement on the page.
4. **Letters.** With the last composition, focus on the letters you have selected from your above syllables — to form a final composition via type as a metaphor.

What useful websites/resources could I use to help me prepare?

I have created a power-point to support the task. You should also research the work of these inspiring typographers in the links below:

[25 typographers.pdf \(sva.edu\)](#)

[The most famous graphic designers of all time | Canva](#)

[13 Legends of Typography and 5 Designers To Watch \(thefutur.com\)](#)



Subject	History		
Title/Topic	Format	Length	WC
Paper 1 – Germany	Essay	45	18/11
Paper 2 – Civil War	Essay	45	18/11

In this Advent assessment I will be asked to show I can...

Be able to answer an essay on the breakdown in relations between Charles I and Parliament 1625-29 including the following issues:

- The legacy of James I: religious issues and divisions; relations between Crown and Parliament; relations with foreign powers
- Monarchy and Divine Right: the character and aims of Charles I; the Queen and the court; the King's advisers; ideas of royal authority
- Challenges to the arbitrary government of Charles I: reactions against financial policies; conflict over Church; reactions against foreign policy and the role of Buckingham
- Parliamentary radicalism; personalities and policies of parliamentary opposition to the King; the Petition of Right; the dissolution of Parliament and the King's commitment to Personal Rule

Be able to answer an essay question on changes in Germany between 1870-1914 including the following issues:

- Political authority: the extent and make-up of the German Empire in 1871; the 1871 constitution; the role of Emperor and Chancellor; political groupings and parties and their ideologies
- Government and opposition: Kaiser Wilhelm I and government under Bismarck; their personalities and policies; the role of the Reichstag; the struggle between autocracy and democracy; the development of parties and political opposition
- Government and opposition: Kaiser Wilhelm II and his chancellors; personalities and policies; the place of the Reichstag; the struggle between autocracy and democracy; the development of parties and political opposition
- Economic developments: industrial expansion; old and new industries; trade and wealth
- Social developments: the class hierarchy; elitism and the culture of militarism; the condition of the working people
- The political, economic and social condition of Germany by 1914



What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Read the articles in the wider reading booklet.
2. Ensure that you can answer all the questions at the end of each chapter in your textbook.
3. Learn all the questions in your knowledge organiser on the topics covered so far.
4. Read over notes from each lesson and consolidate learning by writing summary paragraphs.

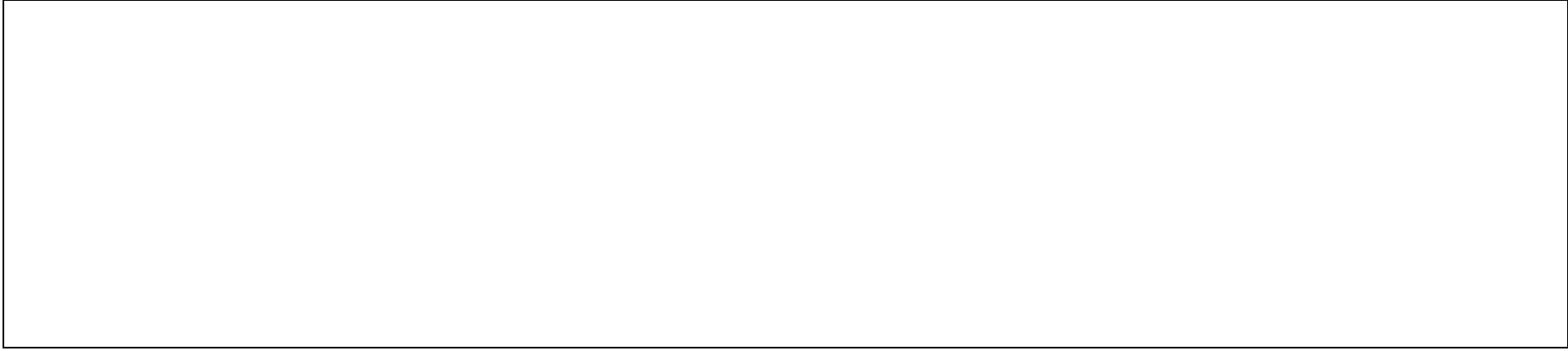
What useful websites/resources could I use to help me prepare?

Wider Reading booklets.

Wider reading books, either Smith, Ackroyd or Coward for Britain. Carr for Germany.

The AQA textbooks you have been issued.

Year 12	English Language and Literature	Assessment Date(s):	W/C 25 th November
Assessment Format:	1 extract and 2 essays	Assessment Length:	2 hours (2 lessons)
What key topics do I need to know and remember...			
<ul style="list-style-type: none">• Demonstrate an understanding of plot and character• Analyse the impact of language, form and structure• Use terminology in a response• Plan and organise and coherent and cohesive response• Demonstrate an understanding of the context of poetry and the novel• Compare the presentation of a theme across different texts			
How can I best prepare and revise for this assessment...			
<ol style="list-style-type: none">1. Re-read ‘The Color Purple’ so far2. Re-read the poems studied3. Create character pages for the main characters4. Practise writing SPOs5. Look at past papers on the Eduqas website6. Revise terminology using the A Level Language textbook7. Revise and research context for the novel and the poems			



Year 12	English Literature	Assessment Date(s):	W/C 25th Nov
Assessment Format:	2 essays	Assessment Length:	2 hours (2 lessons)

What key topics do I need to know and remember...

- The events in King Lear up to the end of Act 1
- Placement of an extract and the way it slots into the play as a whole (Up to Act 3)
- The events in the whole The Great Gatsby
- Tragic features in both text (AO4)
- Analysis of language, form and structure (AO2)
- Can you apply context to the set texts (AO3)
- Alternative interpretations of the text (AO5)

How can I best prepare and revise for this assessment...

- Practice analysing extracts
- Write about the extract! You would not believe how many students don't. Yes, you have to make references to the wider play but only things that highlight something interesting within the extract. The vast majority of your writing should be about the extract.
- Think about it as a dramatic moment. There will be some dramatic method in there. Where are the lines that tell you that a character is doing something physical? Remember this is a drama not a novel – write about action not punctuation!
- AQA have repeatedly told us that the best way to start this response is by pinning down the dramatic arc of the extract. I.e what happens during the extract. Your opening paragraph should do this and state briefly why this is a significant moment. Good questions to ask yourself are what has happened that led up to this and what happens as a result of this? Answering these while thinking about the dramatic arc of the extract will help you focus on the extract and address significance and structure.
- Reread The Great Gatsby and create Cornell notes pages



Subject	Year 12 Media		
Title/Topic	Format	Length	WC
Paper 1	Written Paper	50 mins	
Paper 2	Written paper	50 mins	

In this Advent assessment I will be asked to show I can...

Media Language

- Media Audience
 - Identify and explain demographics, socio-economic, psychographic category of media product
- Media Language
 - Analyse the use of language within media products, and how it helps convey message and meaning
 - Identify the narrative of various media product
- Media Representation
- News
 - Comparisons between Broadsheets and tabloids
 - Conventions used in newspapers and online counterparts
 - Hard news vs Soft news
 - Political affiliation of newspapers

What should I do to revise and prepare for this assessment?



- Practice analysing posters used in information campaigns
- Practice analysing tabloid newspapers and the way they present the news
- Review class workbooks and complete practice activities

What useful websites/resources could I use to help me prepare?

All resources and files are available on the Student OneDrive



Subject	Physics		
Title/Topic	Format	Length	
Paper 1 SPC	Written	50 mins	
Paper 2 HFS	Written	50 mins	

In this Advent assessment I will be asked to show I can...

Demonstrate knowledge from the following topics.

- Higher faster stronger
- Technology in space
- Calculating uncertainty
- Homogeneity of units

A list of the specification statements for each of the topics is listed at the back of these sections in the textbook.

What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Use your textbook and do look/cover/write/check to learn key knowledge.
2. Use your revision guide.
3. Make flash cards for key knowledge and definitions.

Use the websites given below



What useful websites/resources could I use to help me prepare?

Specification:

<https://qualifications.pearson.com/content/dam/pdf/A%20Level/Physics/2015/Specification%20and%20sample%20assessments/PearsonEdexcel-AS-Physics-Spec.pdf>

Seneca learning

<https://senecalearning.com/en-GB/>

A level physics online:

<https://www.alevelphysicsonline.com/edexcel>

Isaac physics:

<https://isaacphysics.org/>

YouTube:

https://www.youtube.com/results?search_query=edexcel+a+level+physics

Flipped around physics:

<https://www.flippedaroundphysics.com/a-level.html>

Physics and Maths tutor:

<https://www.physicsandmathstutor.com/physics-revision/a-level-edexcel/>

Revisely:

<https://www.revisely.co.uk/alevel/physics/edexcel/>

Physicsnet:

<http://physicsnet.co.uk/a-level-physics-as-a2/>

Your revision guide – use the revision guide suggested to you by your teacher.



Subject	Politics		
Title/Topic	Format	Length	WC
Paper 1 – Electoral systems	Essay	45	18/11
Paper 2 – Liberalism	Essay	45	18/11

In this Advent assessment I will be asked to show I can...

Be able to answer an evaluative essay on electoral systems.

You need to be able to evaluate the strengths and weaknesses of various electoral systems used in the UK including:

First past the Post
Closed Party List
Single Transferable Vote
AV+

Be able to answer an evaluative essay on liberalism.

You need to be able to understand and discuss the following:

Liberal view of Human Nature, State, economy and society.

The difference between classic and modern liberalism.

Include the idea of key thinkers John Locke, John Rawls, John Stuart Mill, Mary Wollstonecraft, Betty Friedan.

What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Read the articles shared on teams.
2. Ensure that you can answer all the questions at the end of each chapter in your textbook and booklets.
3. Read over notes from each lesson and consolidate learning by writing summary paragraphs.



What useful websites/resources could I use to help me prepare?

Tutor 2u

Ideologies textbook.

Wider reading booklets



Subject	A Level Psychology		
Title/Topic	Format	Length	WC
Research Methods & Approaches	Written	1 hour	25 th Nov 2024

In this Advent assessment I will be asked to show I can...

Demonstrate the following areas we have covered so far:-

Research methods part 1 which will consist of the following areas:-

- Variables & control of extraneous variables
- Hypotheses
- Pilot studies
- Lab experiments
- Field Experiments
- Natural / Quasi Experiments
- Self-Report
- Demand Characteristics
- Investigator Effects
- Research Design
- Reliability & Validity
- Ethics
- Observations
- Correlations
- Measures of central tendency / dispersion



- Types of data Sampling

Approaches we will only cover the following areas:-

- Origins of psychology
- Behaviourist approach
- Social learning theory

What should I do to revise and prepare for this assessment?

Please do the following to prepare for this assessment: -

- Read your notes in your exercise book and ensure that your notes are all up to date.
- You all should have completed the revision flash cards on research methods and should have started your approaches one.
- Go over the scenario homework completed.
- Approaches prep time booklet.



What useful websites/resources could I use to help me prepare?

Please use the following resources for revision:-

- [Research Methods | Live Revision for AQA A Level Psychology 2024 \(youtube.com\)](#)
- Look through your notes
- Flash cards
- Past papers



Subject	T-level laboratory science		
Title/Topic	Format	Length	
Paper 1 – Chemistry	Written	45 mins	
Paper 2 – Physics	Written	45 mins	
Paper 3 - Biology	Written	45 mins	

In this Advent assessment I will be asked to show I can...

Paper 1

Atomic structure and moles

Acids and bases

Structure and bonding

H&S at work

Paper 2

Electricity

Magnetism

Policies and procedures in the Health and Science sector

Paper 3

Cells and tissues

Biological molecules

Exchange and transport

What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Use your lesson book and do look/cover/write/check to learn key processes
2. Make flash cards for key knowledge and definitions.
3. Complete practice questions from the text book

Year 12	Sociology	Assessment Date(s):	Wednesday 27 th November 2024
Assessment Format:	One test paper	Assessment Length:	45 minutes
What key topics do I need to know and remember...			
<u>Paper 1: Education</u> <u>Education</u> <ul style="list-style-type: none"> • differential educational achievement of social groups by social class and gender • educational policies • theories – Marxism, functionalism and feminism 			
How can I best prepare and revise for this assessment...			
<ul style="list-style-type: none"> • Review revision resources you have made. • Review your class notes from this year. 			