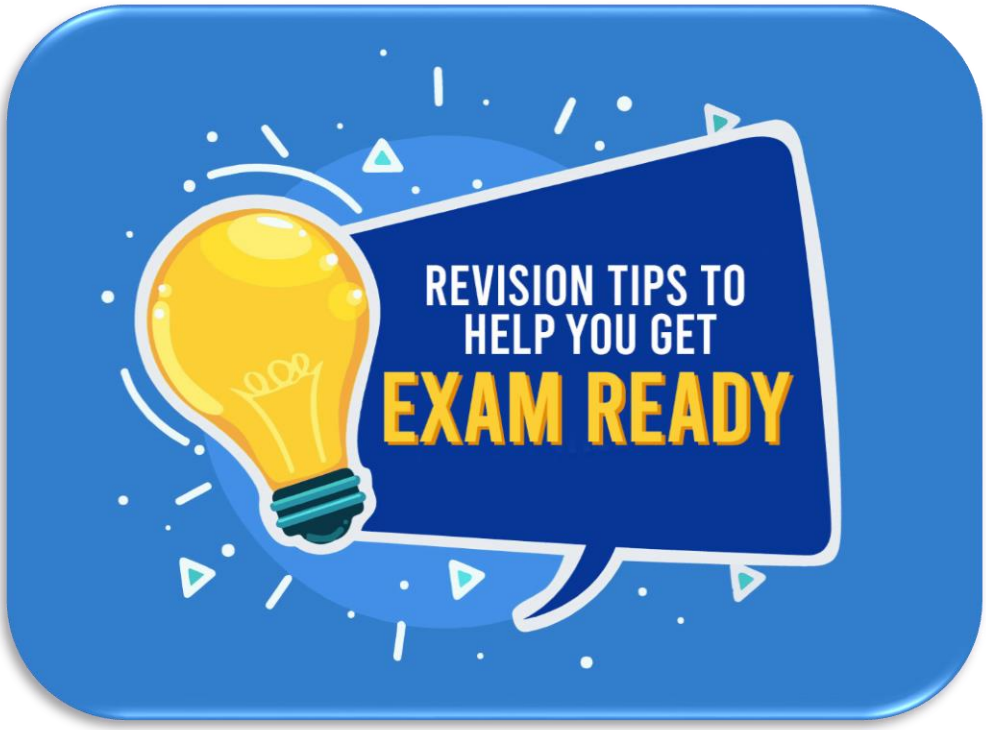
HELSTON COMMUNITY COLLEGE

ASPIRATION • AMBITION • ACHIEVEMENT



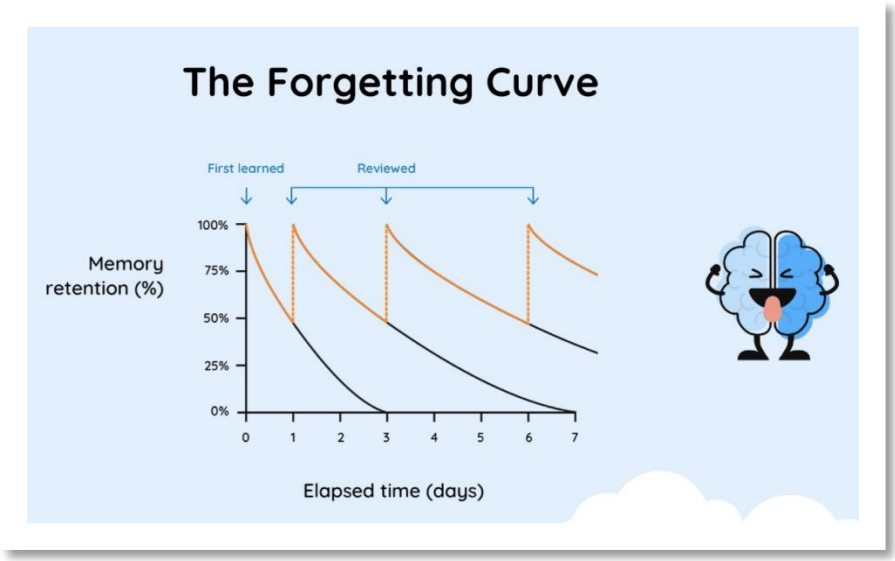
Year 11 Mock Exams

Contents

What to do

Each page has a list of topics or concepts which will be assessed in the Year 11 mock exams. There are also links to revision resources on various websites. Use the subject pages alongside the revision tips to maximise your success!

Why revise?



1. **Boost Your Memory and Beat Forgetting**
   Imagine spending hours in class learning something, only to forget it a few days later. This happens to everyone, and it's called the "forgetting curve," a concept discovered by psychologist Ebbinghaus. Without revision, your brain naturally starts to forget information over time. But when you review regularly, you strengthen your memory and make sure all that hard work doesn't go to waste. Revising for your mocks is the key to remembering what you've learned for the long term, setting you up for success in both the mocks and the real exams.

2. **Make Learning New Information Easier**
   Revising the things you've already learned gives your brain the foundation it needs to absorb new information faster and with less stress. When you walk into class already confident in the basics, you can focus on understanding new topics, rather than trying to catch up. This makes your entire learning process smoother and easier. Think of revision as building a strong base—without it, everything else gets harder!

3. **Gain Confidence and Control**
   How often do nerves or panic get in the way of doing your best? By revising for your mocks, you're not only preparing for the content but also boosting your confidence. When you know what you're doing, you'll walk into the exam room feeling more in control, less anxious, and more focused on getting the grades you deserve. Confidence from good revision will help you stay calm, perform better, and manage the pressure.

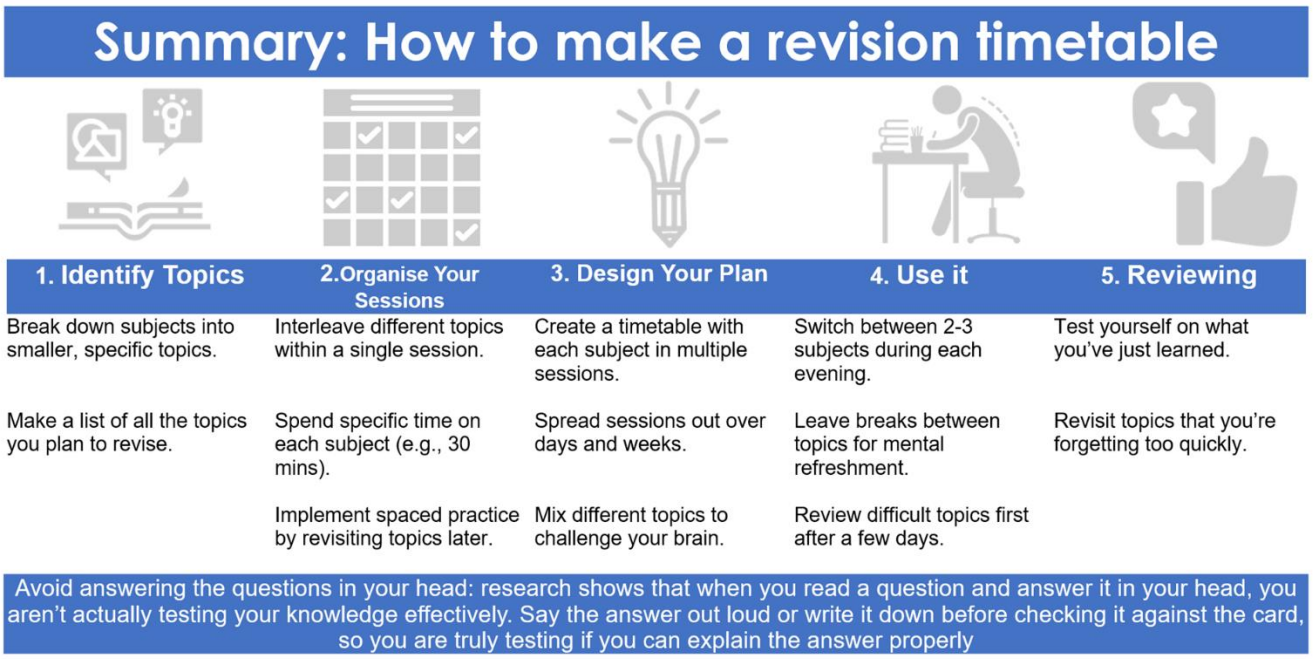
4. **Stay Ahead of the Competition**
   Whether we like it or not, grades are competitive. You're not just aiming for a pass—you're competing for the best grades that will get you into the college or job you want. There are limited places, and every mark counts. By revising properly for your mocks, you give yourself the edge over other students who might not be as prepared. Think of it as training for a big sports event—the more you practice, the better you'll perform when it really counts.

5. **Perfect Your Exam Technique**
   Mocks are more than just a practice run—they're your chance to sharpen your exam technique.

Revising helps you become familiar with the types of questions you'll face and the best ways to answer them. The more you revise, the better you get at managing your time and structuring your answers. This practice will be a huge advantage when the real exams come, because you'll know exactly what to do under pressure.

Revising for your mocks isn't just about passing a test—it's about building memory, boosting confidence, staying ahead of the competition, and preparing yourself for the real exams that will shape your future. Don't let this opportunity slip by!

How to use revision timetables

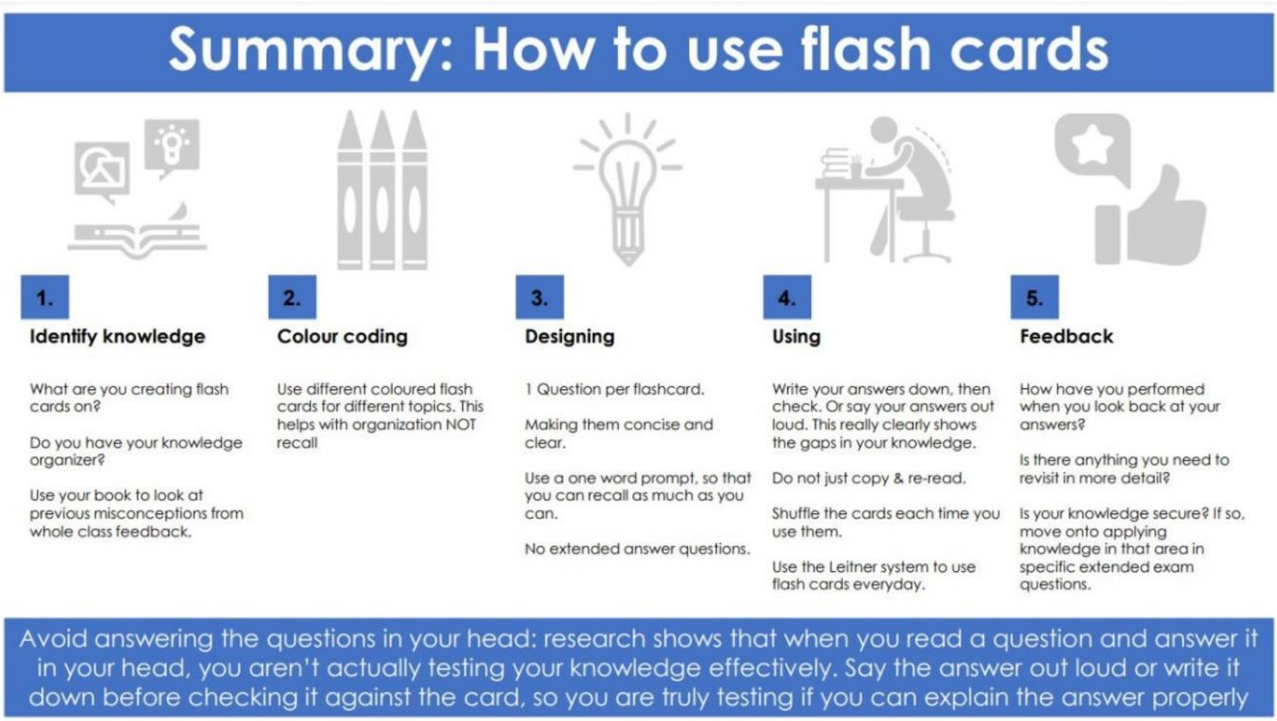


The mock timetable:

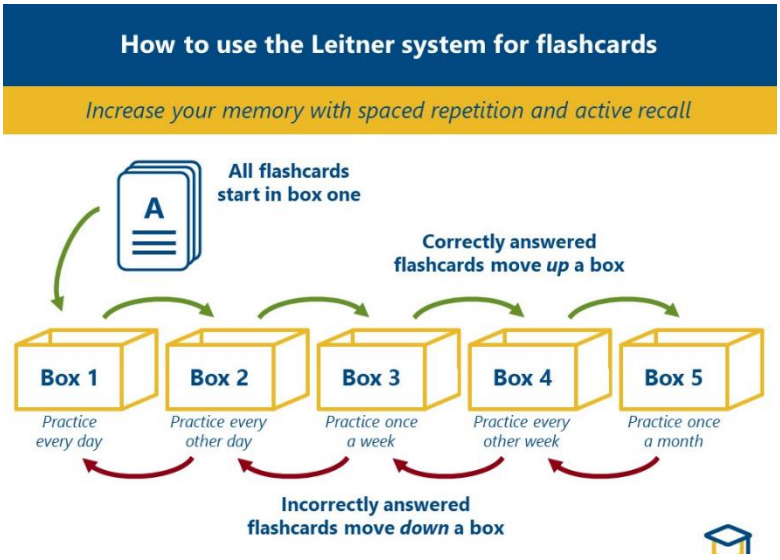
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
11/11/2024		13/11/2024	14/11/2024			
08:55 - Spanish Listening/Reading (in lessons)		08:55 - French Listening/Reading (in lessons)	14:00 – Music (in lessons)			
18/11/2024	19/11/2024	20/11/2024	21/11/2024	22/11/2024		
08:55 - Maths 1	08:55 - English 1	08:55 - Biology (Triple)	08:55 - English 2	08:55 - Maths 2		
13:00 - History 1	13:00 - Geography 1	08:55 - Biology (Double)	13:00 - History 2			
13:00 - Business 1						
25/11/2024	26/11/2024	27/11/2024	28/11/2024	29/11/2024		
08:55 - Chemistry (Triple)	08:55 - Maths 3	08:55 - Physics (Triple)	08:55 - Construction	08:55 - Design Technology		
08:55 - Chemistry (Double)	13:00 - IT	08:55 - Physics (Double)	08:55 - Hair & Beauty	13:00 - Computer Science 2		
13:00 - Drama	13:00 - French Writing	13:00 - Geography 2	13:00 - Food			
13:00 - Business 2	13:00 - Spanish Writing		13:00 - Computer Science 1			
13:00 - Spanish Writing for clash students						
13:00 - Computer Science 1 for clash students						

There are blank revision timetable templates at the back of this document.

Flashcards



The **Leitner method** for studying with flashcards is a fun way to make sure you remember what you learn! Start by writing questions on one side of the card and the answers on the other. Put all your cards in Box 1, which you'll review every day. If you get a card right, move it to Box 2, where you'll review it every 2 days. If you keep getting it right, keep moving it up through the boxes (Box 3 every 4 days, Box 4 every 9 days, and Box 5 every 14 days). If you get a card wrong, move it back to Box 1, so you'll see it more often until you know it well. This way, you focus on the cards you find tricky and gradually reinforce your knowledge of the ones you already know!



Brainscape is a digital flashcard app that uses spaced repetition to help you effectively study and retain information, making it a great tool for preparing for your mock exams in the UK. With the ability to create customized flashcards or access a library of pre-made ones, you can tailor your study materials to your specific subjects and needs. The app's interactive platform, progress tracking, and flexibility allow for efficient and engaging study sessions, ensuring you focus on challenging topics while reinforcing your knowledge in a convenient way.

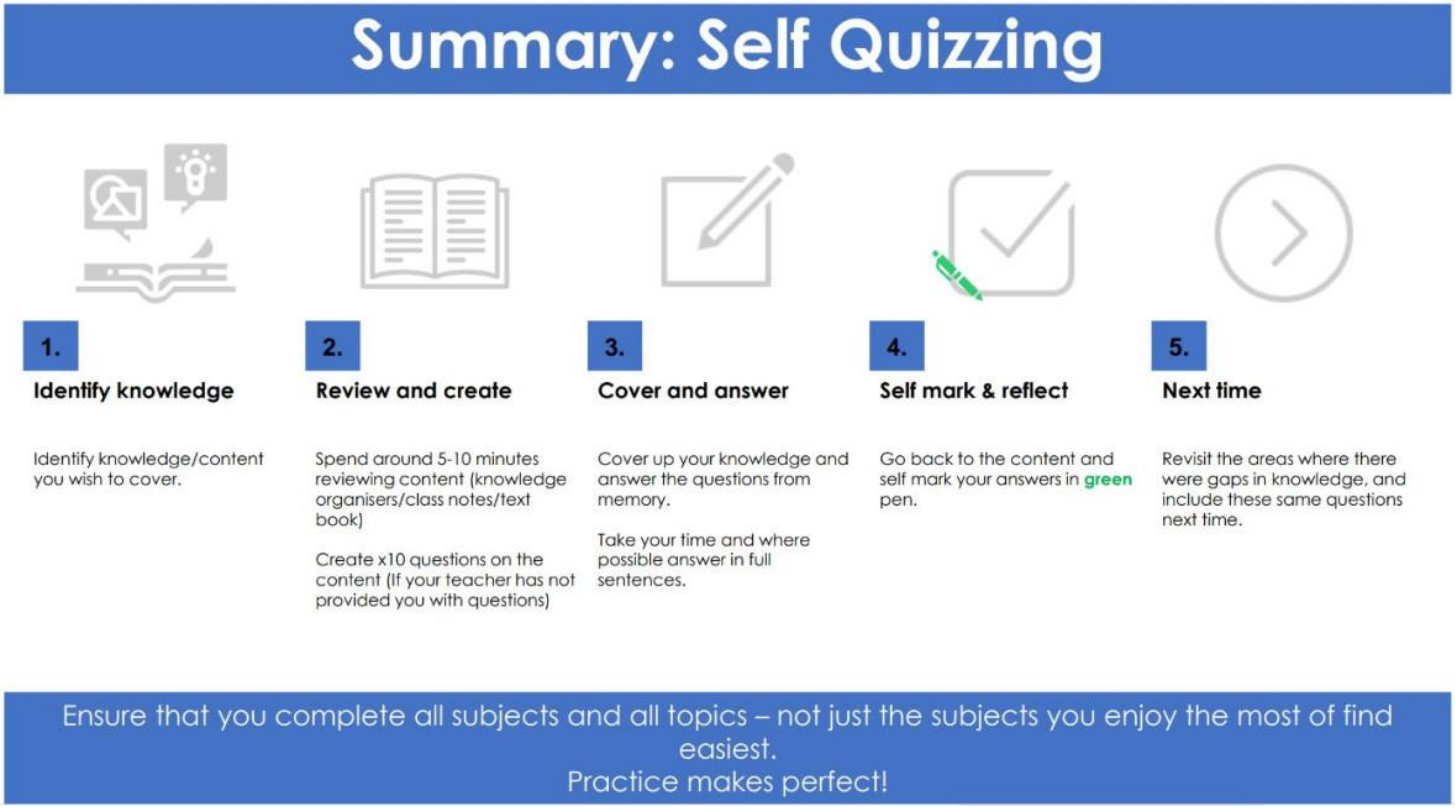
Talk for one minute!

The self-explanation effect has been studied since the 1980s, and has been examined in many disciplines, e.g. chemistry, biology, mathematics and nursing, among others. Self-explanations help the student integrate new knowledge with existing knowledge, and can allow the learner to update and refine existing mental models.

Self-explanation has been shown to improve the acquisition of problem-solving skills when studying worked-out examples. Self-explanation, when explicitly encouraged or required can also facilitate the learning of declarative knowledge from an expository text.

By self-explaining, students may become more aware of the actual level of their understanding – and may provide students with key information about areas of confusion and/or understanding.

Self quizzing



Biology (including DA science): 20/11/2024

Topics to revise:

- B1 Cell Biology
- B2 Organisation
- B3 Immunity And Response
- B4 Bioenergetics

Revision resources:

- Knowledge organiser and checklists have been allocated to you via class charts for all of these units
- Two past papers have also been allocated to you to use for revision via class charts.
- A Showbie Science Revision room has been set up for you to join to have extra revision resources at your fingertips. Code: MM6TU
- Science afterschool support and coaching every Thursday in Lab 3. 3:15 to 4:30pm.
- Past papers – download from the AQA website AQA | Find past papers and mark schemes
- Revision guide, workbooks, revision card pack can be ordered from the school shop.
- Cognito videos with linked worksheets for each small topic/key concept Cognito - YouTube
- Seneca learning Free Homework & Revision for A Level, GCSE, KS3 & KS2 (senecalearning.com)
- Focus science software to revise the required practicals: Focus eLearning by Focus Educational Software ltd.
- Cognito Resources - Past Papers - GCSE > Qs by Topic > Biology > AQA
- GCSE Biology (9-1) - YouTube

SENECA

B1 - Cell Biology	Seneca Learning Biology Course: Cell Biology Folder	
B2 - Organisation	Seneca Learning Biology Course: Organisation Folder	
B3 - Infection and Response	Seneca Learning Combined Science: Biology Course: Infection and Response Folder	
B4 - Bioenergetics	Seneca Learning Combined Science: Biology Course: Bioenergetics Folder	
Biology Paper 1: Required practical	Required practical review of: Microscopy, Osmosis, Food tests, Enzymes and Photosynthesis.	

Business: 20/11/2024, 25/11/2024

Topics to revise:

Google Classrooms:

11Bu.B https://classroom.google.com/c/NjMzNDIwOTQ3NjEz?cjc=sc5vmwk

11Bu.D https://classroom.google.com/c/NjIxMjY1MDQ4ODA1?cjc=jtaeiav

Knowledge Organisers	Theme 1 – Paper 1	Knowledge Organisers	Theme 2 – Paper 2
Topic 1.1 Enterprise and Entrepreneurship	1. Introduction Lesson	Topic 2.1 Growing the business	1. Introduction to Theme 2
	2. The Dynamic Nature of Business		2. Business Growth (Part 1)

	3. Risk and Reward		3. Business Growth (Part 2)
	4. The Role of Business Enterprise		4. Changes in Business Aims and Objectives
Topic 1.2 Spotting a Business Opportunity	1. Customer Needs		5. Business & Globalisation P1
	2. Market Research		6. Business & Globalisation P2
	3. Market Mapping		7. Ethics, the environment and business
	4. Market Segmentation	Topic 2.2 Making marketing decisions	1. Product
	5. The Competitive Environment		2. Price
Topic 1.3 Putting a business idea into practice	1. Business Aims and Objectives		3. Promotion
	2. Business Revenues, Costs and Profits (Part1)		4. Place
	3. Business Revenues, Costs and Profits (Part2)		5. Using the marketing mix to make decisions
	4. Cash and Cash Flow	Topic 2.3 Making operational decisions	1. Business Operations (Part 1)
	5. Sources of Business Finance		2. Business Operations (Part 2)
Topic 1.4 Making the business effective	1. Options for start-up & small businesses (Part1)		3. Working with Suppliers
	2. Options for start-up & small businesses (Part2)		4. Managing Quality
	3. Business Location		5. The Sales Process
	4. Marketing Mix (Part 1)	Topic 2.4 Making financial decisions	1. Business Calculations (Part1)
	5. Marketing Mix (Part 2)		2. Business Calculations (Part2)
	6. Business Plans		3. Understanding Business Performance (Part 1)
Topic 1.5 Understanding external influences on business	1. Business Stakeholders		4. Understanding Business Performance (Part 2)
	2. Technology and Business	Topic 2.5 Making human resource decisions	1.Organisational Structures (P1)
	3. Legislation and Business		2.Organisational Structures (P2)
	4. The Economy and Business		3. Effective Recruitment (Part 1)
	1. External Influences-1		4. Effective Recruitment (Part 1)
	2. External Influences-2		5. Effective Training and Development
			6. Motivation

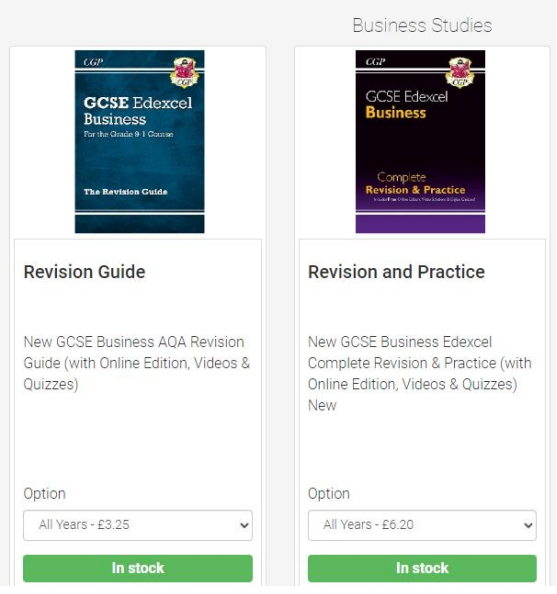
Revision resources:

Smart Revise https://smartrevise.online/

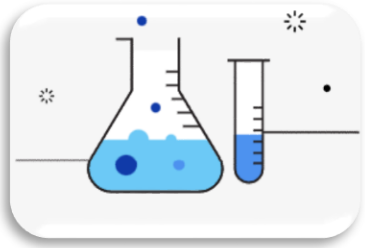
Exam Technique Guide (To Use) & Calculations - Students need to memorise the formulas and remember the command verb exam technique covered in this document.

https://drive.google.com/file/d/1fnwthmd8MwOk_Sq-OpkMllFhKeWn9zih/view?usp=sharing

Helston Community College Shop (parentpay.com)



Chemistry (including DA science): 25/11/2024



Topics to revise:

- C1 Atomic structure and the Periodic table
- C2 Bonding, structure and properties
- C3 Quantitative Chemistry
- C4 Chemical changes
- C5 Energy changes

Revision resources:

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- Cognito Resources - Past Papers - GCSE > Qs by Topic > Chemistry > AQA
- GCSE Chemistry (9-1) - YouTube

SENECA

C1 - Atomic Structure and the Periodic Table	Seneca Learning Combined Science: Biology Course: Atomic Structure and the Periodic Table Folder	
C2 - Bonding, Structure, and the Properties of Matter	Seneca Learning Combined Science: Chemistry Course: Bonding, Structure, and the Properties of Matter Folder	
C3 - Quantitative Chemistry	Seneca Learning Combined Science: Chemistry Course: Quantitative Chemistry Folder	
C4 - Chemical Changes	Seneca Learning Combined Science: Chemistry Course: Chemical Changes Folder	
C5 - Energy Changes	Seneca Learning Combined Science: Chemistry Course: Energy Changes Folder	
Chemistry Paper 1: Required practical	Required practical review of: Making salts, Electrolysis and Temperature changes.	

Computer Science: 28/11/2024, 29/11/2024 (for students with a clash: 25/11/2024)

Topics to revise:

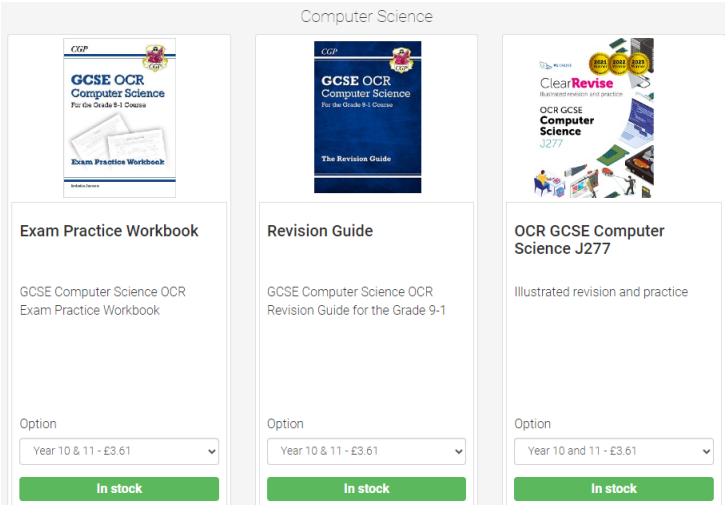
1.1 – Systems Architecture
1.2 – Memory and Storage
1.3 – Computer Networks, Connections, and Protocols
1.4 – Network Security
1.5 – Systems Software
1.6 – Ethical, Legal, Cultural, and Environmental Impacts of Digital Technology
2.1 – Algorithms
2.2 – Programming Fundamentals
2.3 – Producing Robust Programs
2.4 – Boolean Logic
2.5 – Programming Languages and Integrated Development Environments

Revision resources:

Tassomai https://app.tassomai.com/login

Login — Isaac Computer Science

Helston Community College Shop (parentpay.com)



GCSE Computer Science - J277 Knowledge Organiser

Google Classroom Topics: https://meet.google.com/btk-inne-xcx

Construction: 28/11/2024

Topics to revise:

Chapter 1 The Structure of The Industry

Chapter 2 Health and Safety

Revision resources:

Use the Google Classroom and read the exam revision slides: June 2024, 2023, 2020, 2019 and June 2018.

Read Chapter 2 Health and Safety & Chapter 1 The Structure of The Industry, these will cover the mock exam questions.

https://classroom.google.com/c/NjE1OTc3MjUxNjIz Code vci437g

Design Technology: 29/11/2024

Topics to revise:

Section A – Core Technical Principles – Broad coverage of the whole of the D&T Spec.

- A range of multiple-choice questions, worth 1 mark each, & full response questions, with marks noted next to each question.
  - Materials – Properties & Characteristics
  - Systems – Input/ Process/ Output

Section B – Specialist Technical Principles – Coverage associated with selected processes & materials.

- Full response questions, with marks noted next to each question.
  - Materials – Properties & Characteristics
  - Production Methods – Stock Forms
  - Maths – Using Data; Calculating Volume
  - Social/ Economic/ Ethical impacts

Section C – Designing & Making Principles

- **Full response questions, with marks noted next to each question.**
  - ACCESS FM – Implementation for specification & product analysis
  - Anthropometric/ Ergonomic – he use of Anthropometric data
  - Design Planning & Development - Nesting
  - Technical Drawing – Orthographic/ Isometric
  - Maths – Using Data; Calculating Volume
  - Design Strategies

Revision resources:

Resources associated with course content have been shared through Google Classroom. These include: General D&T revision resources; Past Papers; Knowledge Organisers, associated to project topics, delivered throughout the year.

In addition to the Google Classroom, pupils have access to the D&T SENECA platform (link shared through Google Classroom & Class Charts).

Other useful resources include:

- BBC Bitesize: GCSE Design and Technology - AQA - BBC Bitesize
- Technology Student: ENGINEERING - DESIGN AND TECHNOLOGY (technologystudent.com)
- Seneca: https://app.senecalearning.com/

Drama: 25/11/2024

The test will be a full question paper with questions on Theatre Terminology, the set text (Noughts & Crosses) and Live Theatre.

Section A – Theatre Terminology

There will be 4 multiple choice questions worth 1 mark.

Topics to revise:

- Staging
- Theatre roles
- Technical Terms

Resources:

Class work
BBC Bitesize - GCSE Drama - AQA - BBC Bitesize

Section B – Set Text

There will be 4 questions about the play ranging from 4 marks to 20 marks.
During the test, you will write all answers in continuous prose (paragraphed writing).

Topics to revise:

- Actors Skills
- The plot of Noughts and Crosses
- Your interpretation of the characters and how you would perform them (even if you are a design student)

Resources:

Noughts & Crosses worksheets (all the terms we have covered in class)
Noughts & Crosses play text (which you will have in the exam)
BBC Bitesize - GCSE Drama - AQA - BBC Bitesize
N&C power point on Google Classroom

Section C – Live Theatre

The test will be on the Live Theatre question. There will be one 32 mark question about the play.
During the test, you will write all answers in continuous prose (paragraphed writing).

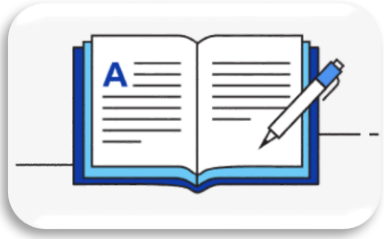
Topics to revise:

- Actors Skills
- The plot of the production you have watched
- Your evaluation of the production
- Theatrical terms
- Types of staging

Resources:

National Theatre Log In (on the Google Classroom)
Class work
BBC Bitesize - GCSE Drama - AQA - BBC Bitesize

English: 19/11/2024, 21/11/2024



Topics to revise:

Tuesday 19th November: Paper 1 – Fiction reading and writing

Section A – 1 hour

Read ONE fiction extract and answer the following questions:

1 – List 4 things about the named section in the text

2 – How does the writer use language to describe…..?

3 – How has the writer structured the text to create effects?

4 – Your critical response to a statement given in the question – make sure that you talk about the writer's methods!

Section B – 45 minutes

5 - A choice of two creative writing tasks (descriptive or narrative) you only need to do ONE!

Thursday 21st November: Paper 2 – Non-Fiction reading and writing

Section A – 1 hour

Read TWO fiction extracts and answer the following questions:

1 – True or false – choose 4 true statements

2 – Write a summary of the differences between something in the two texts

3 – How has the writer used language to describe……?

4 – Comparison – what are the different feelings/attitudes/perspectives of the writers in the two texts?

Section B – 45 minutes

5 - A piece of opinion writing on a given topic – it could be a letter, article or speech. You will get **ONE** task that you have to complete.

Revision resources:

Your independent study booklet includes all that you need to know! There are breakdowns for each question, including question scaffolds on each part of the paper.

- BBC Bitesize: www.bbc.co.uk/bitesize/examspecs/zcbchv4
- Mr Bruff (English Language Paper 1): www.youtube.com/playlist?list=PLqGFsWf-P-cAlttmXkEvJXCxqT-ZzFqAN
- Mr Bruff (English Language Paper 2): www.youtube.com/playlist?list=PLqGFsWf-P-cB-GSeqYup7PXId4pbldQVq
- Mr Sayles (English Language Paper 1): www.youtube.com/playlist?list=PLQovVw7yuGiJG8GmuvrNISmB08U5sfURy
- Mr Sayles (English Language Paper 2):

www.youtube.com/playlist?list=PLQovVw7yuGiI2AG1sYMy64zueBxYXw9_B

- AQA Spotlight on English Language: www.youtube.com/playlist?list=PLBhgvcteMltjp11wShXfB91rxWv_MNrox

How do I revise for English Language?

Section A – READING:

READ as much as you can! Try to vary your reading diet and then use the questions below to challenge yourself after you have read something.

Non-fiction texts: e.g. newspaper articles, magazine articles, speeches, reports, reviews.

- What was the article about?
- Can you summarise it?
- Which bits stood out to you and why?
- What kind of words did the writer use to make you interested? Any language or persuasive techniques used? What do you think the effect of these are?
- What is the writer's point of view in the article? How does he/she get it across?

Fiction texts: Short stories are a good start, or any other prose fiction. The exam extract will be approx. 750 words so you could just work with opening pages of novels, or perhaps opening pages of chapters.

- What happens in the extract?
- Pick a character or setting from the bit you've read and tell me four things about him/her/it.
- What kind of words did the writer use to make you interested? Any language or descriptive techniques used? What do you think the effect of these are?
- How has the piece of writing been organised? What happens at the beginning, middle and end? Any turning points/flashbacks/foreshadowing/zooming in or out?
- What did you like best about the extract?

Some good websites for news articles:

- https://www.theguardian.com/uk
- http://www.independent.co.uk/
- http://www.telegraph.co.uk/
- https://www.thetimes.co.uk/#section-news

Section B – WRITING

1. Find a suitable picture in a magazine or online, and spend 45 minutes answering this question:

Write a description as suggested by this picture.

2. Use 4 different coloured highlighters to identify language features, interesting vocabulary, different types of punctuation and different types of sentences. Using what you have identified to help you, set yourself 2 targets for improvement and repeat task 1 again!
3. OR use your creative writing piece to answer the following question:
   How does the writer use language to describe?

4. Go on to http://journalisted.com/ OR read an article in one of the newspapers suggested above, and write an article offering an alternative point of view. E.g., if the article argues that we should all become vegetarian – you should argue that we should all become carnivores!

General Revision tasks

1. Download 'word of the day' app on your phone and increase your vocabulary.
2. Play word games like Scrabble with your family and friends!
3. Read a news article and discuss it with your family and friends.
4. Read a book about something you're interested in for fun and enjoy the story or enjoy learning about something new.
5. Start writing your autobiography…
6. Write a letter to an MP about something you are concerned about or passionate about.
7. Enter an English writing competition.

Food: 28/11/2024

Topics to revise:

FOOD, NUTRITION & HEALTH
- Macronutrients: Protein 3.2.1.1
- Macronutrients: Fats 3.2.1.2
- Macronutrients: Carbohydrates 3.2.1.3
- Micronutrients: Vitamins 3.2.2.1
- Micronutrients: Minerals 3.2.2.2
- Micronutrients: Water 3.2.2.3
- Nutritional Needs 3.2.3

FOOD SCIENCE 3.3
FOOD SAFETY 3.4
FOOD CHOICE 3.5
FOOD PROVENANCE 3.6
- Environment 3.6.1.2
- Sustainability 3.6.1.3
- Technological Developments 3.6.2.2
- Food Production 3.6.2.1

SKILLS FOCUS 3.1
- SKILL 1: GENERAL PRACTICAL SKILLS
- SKILL 2: KNIFE SKILLS
- SKILL 3: PREPARING FRUIT & VEGETABLES
- SKILL 4: USE OF COOKER
- SKILL 5: USE OF EQUIPMENT
- SKILL 6: COOKING METHODS
- SKILL 7: PREPARE, COMBINE & SHAPE
- SKILL 8: SAUCE MAKING
- SKILL 9: TENDERISE & MARINATE
- SKILL 10: DOUGH
- SKILL 11: RAISING AGENTS
- SKILL 12: SETTING MIXTURES

Revision resources:

SENECA - Complete SENECA covering all topics that is live until after the summer exams on the different classes google classroom 11A, 11B, 11C

All 3 Year 11 Food classes have a complete revision bundle area on their google classroom including Knowledge Organisers. Hard copies of knowledge organisers are available to take from the food rooms.
11A - w53rlju https://classroom.google.com/c/NjIyMjkxMzAyNjYy
11B - rssz3bv https://classroom.google.com/c/NjIyMjkyMDExOTc3
11C - lf5wl3w https://classroom.google.com/c/NjIyMjkzOTU1MTk1

All 3 year 11 food classes have complete set of GCSE exam papers and mark schemes on their google classroom. Students have a revision guide they can purchase off parent pay.

French: Listening/Reading: 13/11/2024; Writing: 26/11/2024

Topics to revise:

We are sitting 3 papers in the mocks

	Foundation timing	Higher timing
Listening	35 minutes	45 minutes
Reading	45 minutes	60 minutes
Writing	60 minutes	75 minutes

Listening exam:

Question styles include multiple choice, positive/negative/both, identifying tenses, short answers in English and short answers in French. Section A is question and answers in English and section B Questions and answers in French. The exam includes 5 minutes reading time before the exam in which students can read through the paper and make any notes they wish - this is a good time to predict some of the vocabulary they may hear.

Reading exam:

Question styles include multiple choice, positive/negative/both, identifying tenses, short answers in English and short answers in French. Section A is question and answers in English and section B Questions and answers in French. There is also a translation question from French to English.

Writing exam

Foundation paper:
Write 4 sentences to describe a photo
Write a 40 word essay based on 4 prompts (can just be in one tense)
Translation of 5 sentences to French
90 Word essay based on 4 bullet points - must use at least 3 tenses

Higher paper:
90 Word essay based on 4 bullet points - must use at least 3 tenses
150 word essay based on 2 bullet points
Translation of a short paragraph to French

Topics

The reading and listening papers will be proper past papers to give you a proper taste of the exam. You have been given Quizlet study decks to revise to help you with any topics we may not yet have covered in the paper. Keep revising these and your vocabulary from topics we have done. Use your vocab learning booklet to support you. Remember the key to success is having as broad a vocab as possible. For these exams you need to recognise rather than produce vocabulary

The writing exam will be based on topics we have covered therefore it could include

Holidays
Family and friends
School
Leisure and Technology

Revision resources:

There are lots of resources in our Google classrooms - both your own class specific classroom and the GCSE revision classroom (code: ihcfbcm)

These include:

Quizlet vocabulary decks in computer room lessons
Links to past papers and Questions.
Writing support mats.
Grammar revision sheets.
Knowledge organisers.
You can also use the revision guide and work books and your vocabulary revision booklet and all classwork in your books.

Ensure that you revise the specific vocabulary decks on Quizlet for the listening and reading but be aware that there will also be other vocabulary that we have covered in topics taught to date.

For the writing revise key verbs in different tenses and transferable phrases to use no matter what titles you get by reviewing the different writing mats.

Geography: 19/11/2024, 27/11/2024

Topics to revise:

Paper 1:
Hazards - climate change and tectonic hazards - SENECA Section 1.1, 1.2 and 1.4
The Living World- TRF and cold environments - SENECA section 2.1, 2.2, 2.4
Rivers - SENECA section 3.3

Paper 2:
Urban issues and challenges (LIC/NEE) - Lagos - SENECA section 4.1 up to 4.1.4
Changing economic world (Nigeria) -SENECA sections 5.1 up to 5.1.11 and 5.1.15 up to 5.1.16
Challenges of resource management - SENECA section 6.1

Revision resources:

Seneca - Learn 2x Faster (senecalearning.com)

There is also a Showbie classroom for all year 11 students for revision purposes.

The code for this Showbie class is: B9H7K

Hair & Beauty: 28/11/2024

Topics to revise:

Unit 201

Learning outcome 1. Understand key features of the hair and beauty sector

1.1 The industries within the sector

1.2 Key features of hair and beauty careers

1.3 Business and industry links

Learning outcome 2. Understand the development of the hair and beauty sector

2.1 The key features of hair and beauty in ancient eras and decades of the past hundred years

2.2 Hair and beauty in today's society

Unit 202

Learning outcome 1. Understand chemistry of cosmetics and consider their uses within hair and beauty products

1.1 The effects of acids and alkalis on hair and skin

1.2 The scientific principles of ingredients in hair and beauty products

1.3 Ingredients in hair and beauty products

1.4 Ethical consideration for testing cosmetics

Learning outcome 2. Understand biology related to the hair and beauty sector

2.1 Anatomy and physiology terminology of hair, skin and nails

2.2 Hair, skin and nail conditions and how they can affect or limit treatments and services

Unit 203

Learning outcome 1. Understand the use of design in business

1.1 The importance of using design

1.2 The factors to consider when creating design images

Learning outcome 3. Plan, create and evaluate images for business use

3.1 Plan design images

3.2 Create design images

3.3 Review design images

Revision resources:

All unit presentations are available on the Google Classroom (code: gfs5axz)under each unit, another excellent revision tool to use will be your glossary of key words and your unit work booklet's.

You can also find a lot more helpful information in your Hair and Beauty revision guide.

History: 18/11/2024, 21/11/2024

Topics to revise:

Students will sit two full mock exam papers* in November, each lasting 1 hour and 45 minutes. They will need to revise the following components in full:

Paper 1	18-11-24	The People's Health, 1250-present	The Elizabethans, 1580-1603
Paper 2	21-11-24	Living Under Nazi Rule, 1933-45	History Around Us: Pendennis Castle

***NOTE: Students will sit three papers in the final exams next summer. We will be studying the final component - The Making of America, 1789-1900 - in the spring term.**

Revision resources:

Targeted revision materials can be found in our Showbie

Access Code: EFEEQ

Our GCSE Resource Base, which can be found in Google Classroom, also contains condensed lesson materials (for nay lessons missed) and PDFs of every chapter in each main textbook

Access Code – le3pph4

Also, see these links to online materials and tests:

- BBC Bitesize: GCSE History - OCR B - BBC Bitesize
- Seneca: Seneca - Learn 2x Faster (senecalearning.com)

After school coaching will take place in the History Department on Wednesdays after half-term. All students are welcome.

A CGP Revision Guide is available on *ParentPay* for £3:35 and, in addition, the English Heritage Guide to Pendennis Castle is also available for £3:61

IT: 26/11/2024

Topics to revise:

1: Design tools

2: Human Computer Interface (HCI) in everyday life

3: Data and testing

4: Cyber-security and legislation

5: Digital communications

6: Internet of Everything (IoE)

Revision resources:

Kahoot revision

Google Classroom:

11IT.C https://classroom.google.com/c/NjIxMTQ5NDAzMzc5?cjc=zj6jibw

Cambridge Nationals IT Revision Guide and Workbook by Cambridge International Education https://issuu.com/cupeducation/docs/9781009118088_3rd_sample_digital

Maths: 18/11/2024, 22/11/2024, 26/11/2024

You will have 3 exams paper, each lasting 1½ hours. The first paper is a non-calculator paper, the second and third papers are calculator papers. There are two tiers: Higher Tier and Foundation Tier.

- at Higher Tier students can achieve grades 4 to 9
- at Foundation Tier students can achieve grades 1 to 5

You need to bring the correct equipment to each exam (black pen, ruler, pencil, protractor and pair of compasses) and remember to bring your calculator for the second and third papers.

The exams will cover topics from the full GCSE syllabus. This means that there may be some questions near the end of the exam papers that you don't yet know how to answer yet – don't worry if this is the case. You should still attempt to answer every question.

The tables below summarise the modules you have covered on your learning journey so far in Years 10 and 11. Make sure you know which tier you are following - ask your teacher if you are unsure.

Revision resources

Maths Watch Login Details	**MathsWatch Login Details** To work out your username, you use the following: *[Year you started at HCC][First name].[Surname]@helston* e.g. James Smith-Jones in Year 11 who started at Helston in Sept 2020 would have this username: *20james.smith-jones@helston* **Write your login here:** Everyone's password is '*hexagon*'
Print worksheets or complete interactive questions from MathsWatch	• Go to www.mathswatch.co.uk/vle • Log in using your username and password • Click 'Videos' • Under 'Find a Clip', select 'GCSE' as the qualification • In 'Search' type in the clip number you are looking for • In the 'Choose Clip' box, select the clip you are looking for – this will bring up the video in the 'Video' box Now that you have the correct clip, look at the top right hand corner of the video box: • **Worksheet** – if you click this, it will bring up a pdf that you can print off to complete • **Interactive questions** – if you click this, it will bring up some questions you can complete online and will be marked automatically when you click 'Submit Answer'

Foundation Tier Topics

1 – Angles
MathsWatch clips: 13, 45-46b, 120-123
Type of angles e.g. acute, right, obtuse, reflex Angles facts: angles at a point, angles at a point on a straight line, angles in a triangle, angles in parallel lines Find missing angles and give reasons for angle calculations Interior and exterior angles of polygons
2 – 2D Shape
MathsWatch clips: 9-10, 52-56, 112, 114a-b
Area and perimeter of triangles, rectangles, parallelograms, trapezia; area and perimeter of compound shapes Surface area of 3D shapes with rectangular and triangular faces
3 – Transformations
MathsWatch clips: 8, 11, 48-50, 113, 133, 148
Reflections and symmetry; rotations and rotational symmetry; translations Enlargements including those with a centre of enlargement Describe transformations

4 – Statistics
MathsWatch clips: 15-16, 62-65b, 128a-130b, 152-153
Produce and interpret a range of charts and graphs: pictograms, composite bar charts, dual bar charts, vertical line graphs, pie charts, histograms with equal class intervals, frequency diagrams for grouped data, stem-and-leaf diagrams, scatter graphs, line graphs, frequency polygons Find the mean, median, mode and range from simple data and from a frequency table Find the modal class and median group from data in a grouped frequency table, estimate the mean from a grouped frequency table using the mid-points of the groups Compare the mean and range of two sets of data
5 – Number
MathsWatch clips: 1-6, 17-23, 27-32, 66-69, 75, 77-82, 91-92, 131
Order whole numbers and decimals Recall multiplication facts up to 12 x 12 (and the associated division facts); know the squares and cubes of 2, 3, 4, 5 and 10 Use mental and written methods for addition, subtraction, multiplication and division Use BIDMAS and the laws of indices; add, subtract, multiply and divide with negative numbers Factors and multiples, HCF (highest common factor) and LCM (lowest common multiple) of two numbers, prime number and prime factor decomposition Use a calculator when working with time and money, and with fractions, powers and roots
6 – Algebra Skills and Sequences
MathsWatch clips: 7, 33-35, 37, 93-94, 102-104, 134a, 141, 163
Use letters to represent numbers Simply algebraic expressions by collecting terms; multiply with letters and numbers Expand (multiply out) a bracket; factorise algebraic expressions Extend diagrammatic sequences Find missing numbers in a sequence and determine whether a number is in a sequence Generate sequences using an n^{th} term; find the n^{th} term of a linear sequence
7 – Equations and Inequalities
MathsWatch clips: 36, 95, 100-101, 135a-139
Distinguish between equations, formulae, identities and expressions Solve one-step and two-step equations; solve equations with unknowns on both sides Solve equations with brackets and fractions Use word formulae; substitute values into expressions and formulae Use the correct notation for inequalities Solve one-step and two-step inequalities; solve inequalities with brackets
8 – Fractions, Decimals and Percentages
MathsWatch clips: 24-26, 40, 70-74, 84-89, 40, 108-111, 164
Find equivalent fractions; compare and order fractions; simplify fractions Add, subtract, multiply and divide fractions; convert between improper fractions and mixed numbers Write one number as a fraction or percentage of another Convert between fractions, decimals and percentages Find fractions and percentages of amounts; calculate percentage profit and loss Solve real-life percentage problems e.g. VAT, simple and compound interest Solve percentage problems including finding the original value (reverse percentages)
9 – Linear Graphs and Real Life Graphs
MathsWatch clips: 8, 96-97, 133, 140, 143, 159a-159b, 162
Draw straight line graphs; find the gradient and y-intercept of straight line graphs Find the equation of straight lines with given properties e.g. parallel to a given line and through a given point Plot and interpret real-life graphs e.g. distance-time graphs Draw, use and interpret conversion graphs
10 – Similarity
MathsWatch clips: 12a-12b, 144, 166
Identify similar and congruent shapes

Recognise that corresponding angles are the same in similar shapes, but corresponding lengths are not Find scale factors between similar shapes; use scale factors to find missing lengths Recognise congruent triangles (SSS, SAS, ASA, RHS)
11 – Probability
MathsWatch clips: 14, 57-61, 125-127b, 151, 175
Understand the probability scale from 0 to 1; use the vocabulary of probability; know that probabilities add to 1 List outcomes systematically Find probabilities based on relative frequency or theoretical probability Draw and use two-way tables, sample space diagrams and Venn diagrams
12 – Vectors
MathsWatch clips: 174
Understand and use vector notation Add and subtract vectors; calculate the resultant of two vectors Multiply vectors by a scalar; recognise parallel vectors
13 – Constructions and Loci
MathsWatch clips: 47, 145a-147
Be able to construct the following: perpendicular bisector, perpendicular from a point on a line, perpendicular from a point to a line, angle bisector, equilateral triangle Construct loci: use constructions to find regions bounded by circles, regions a given distance from a point or a line, regions nearer or further from points, corners, lines or edges on a diagram
14 – Ratio and Proportion
MathsWatch clips: 38-39, 41-42, 106-107, 165
Use ratio notation; write ratios in their simplest form; divide a quantity into a ratio Apply ratios to real-life contexts such as recipes, conversions; use the unitary method Best buy calculations; proportion calculations involving fractions and ratios Recognise and interpret graphs for direct proportion Use and interpret maps and scale diagrams
15 – Circles
MathsWatch clips: 116-118, 149, 167-167
Identify parts of a circle: centre, radius, chord, diameter, circumference, tangent, arc, sector, segment Find the circumference and area of circles; find the perimeter and area of semi-circles and quarter circles Give answers for area and circumference as decimals or as exact values (in terms of π)
16 – Measure and Compound Measure
MathsWatch clips: 105, 112, 142
Convert between metric units of measure; convert between metric and imperial units of measure; convert between measures of length, area or volume Calculate with time; understand distance-time graphs Use exchange rates; calculate speed, density and pressure

'Intermediate' Tier - supporting students moving from grade 5 to grade 6

Please note that there isn't an 'Intermediate' tier option at GCSE level. You will be taking the Higher Tier exam papers for your mock exams. After the mock exams, a final decision will be made regarding the most appropriate tier of entry.

1 – Geometry and Pythagoras' Theorem
MathsWatch clips: 120-123, 150a-c
Angles facts: angles at a point, angles at a point on a straight line, angles in different types of triangles, angles in parallel lines Find missing angles and give reasons for angle calculations Interior and exterior angles of polygons Know and use Pythagoras' Theorem
2 – 2D Shape including circles

MathsWatch clips: 53-56, 114a-118, 149, 167
Area and perimeter of triangles, rectangles, parallelograms, trapezia; area and perimeter of compound shapes Surface area of 3D shapes with rectangular and triangular faces Nets of 3D shapes; plans and elevations Identify parts of a circle: centre, radius, chord, diameter, circumference, tangent, arc, sector, segment Find the circumference and area of circles; find the lengths of arcs and the perimeter and area of sectors Give answers for area and circumference/perimeter as decimals or as exact values (in terms of π)
3 – Transformations
MathsWatch clips: 48-50, 113, 133, 148, 182
Find the midpoint of a line segment Symmetry and rotational symmetry Reflect shapes on co-ordinate grids; identify mirror lines Rotate shapes given a centre of rotation, angle and direction; describe a rotation Translate shapes by given vectors; identify translation vectors Enlargement shapes given a scale factor and centre of enlargement Carry out a sequence of transformations; describe an equivalent single transformation
4 – Statistics
MathsWatch clips: 128a-130b, 152-153, 176
Produce and interpret a range of charts and graphs: pictograms, composite bar charts, dual bar charts, vertical line graphs, pie charts, histograms with equal class intervals, frequency diagrams for grouped data, stem-and-leaf diagrams, scatter graphs, line graphs, frequency polygons Find the mean, median, mode and range from simple data and from a frequency table Find the modal class and median group from data in a grouped frequency table, estimate the mean from a grouped frequency table using the mid-points of the groups Compare the mean and range of two sets of data
5 – Number
MathsWatch clips: 66-69, 75-83, 90-92, 131, 154, 188, 207a-207b
Recall multiplication facts up to 15 x 15 (and the associated division facts); know the squares and cubes of 2, 3, 4, 5 and 10, know the triangular numbers Use mental and written methods for addition, subtraction, multiplication and division Use BIDMAS and the laws of indices; add, subtract, multiply and divide with negative numbers Calculate with standard form; convert between ordinary numbers and standard form Factors and multiples, HCF (highest common factor) and LCM (lowest common multiple) of two numbers, prime number and prime factor decomposition Use a calculator when working with time and money, and with fractions, powers and roots Round values to a given number of decimal places or significant figures; use rounding to 1 significant figure to estimate answers to calculations
6 – Algebra Skills and Sequences
MathsWatch clips: 93-94, 102-104, 134a-134b, 141, 157-158, 163, 210a
Simply algebraic expressions by collecting terms; multiply with letters and numbers Expand (multiply out) single and double brackets; factorise algebraic expressions; factorise quadratics (a = 1) Simplify simple algebraic fractions by cancelling common factors Find missing numbers in a sequence and determine whether a number is in a sequence Generate sequences using an n^{th} term; find the n^{th} term of linear sequences Extend simple geometric progressions
7 – Equations, Inequalities and Rearranging
MathsWatch clips: 95, 100-101, 135a-139, 210b
Distinguish between equations, formulae, identities and expressions Solve equations with unknowns on both sides, with fractional co-efficients and with brackets Derive an equation and interpret the solution in terms of the original context Substitute values into expressions and formulae Solve inequalities and illustrate the solution on a number line Change the subject of a formula (rearrange a formula)

8 – Fractions, Decimals and Percentages
MathsWatch clips: 70-74, 84-89, 108-111, 164, 177
Find equivalent fractions; compare and order fractions; simplify fractions Add, subtract, multiply and divide fractions; convert between improper fractions and mixed numbers Write one number as a fraction or percentage of another Convert between fractions, decimals and percentages, including converting recurring decimals into fractions Find fractions and percentages of amounts; calculate percentage profit and loss Solve real-life percentage problems e.g. VAT, simple / compound interest, income tax, growth / decay problems Solve percentage problems including finding the original value (reverse percentages) and involving repeated percentage change using multipliers raised to powers
9 – Linear Graphs and Real Life Graphs
MathsWatch clips: 96-99, 143, 159a-159b, 208
Draw straight line (linear) graphs Find the gradient and y-intercept of linear graphs; understand gradients of parallel and perpendicular lines Find the equation of straight lines with given properties e.g. parallel to a given line and through a given point Plot and interpret real-life graphs e.g. distance-time graphs, conversation graphs
10 – Similarity
MathsWatch clips: 144, 166, 201
Identify similar and congruent shapes Recognise that corresponding angles are the same in similar shapes, but corresponding lengths are not Find scale factors between similar shapes; use scale factors to find missing lengths Recognise congruent triangles (SSS, SAS, ASA, RHS)
11 – Probability
MathsWatch clips: 125-127b, 151, 175, 185, 204
Understand the probability scale from 0 to 1; use the vocabulary of probability; know that probabilities add to 1 List outcomes systematically Find probabilities based on relative frequency or theoretical probability Draw and use two-way tables, sample space diagrams, Venn diagrams and tree diagrams Know when to add or multiply probabilities
12 – Trigonometry and Bearings
MathsWatch clips: 124, 168, 173,
Know the three trigonometric ratios (SOHCAHTOA) and use them to find missing sides or angles: $\sin\theta$ = opposite/hypotenuse, $\cos\theta$ = adjacent/hypotenuse, $\tan\theta$ = opposite/adjacent Know the exact values of $\sin\theta$ and $\cos\theta$ for $\theta = 0°, 30°, 45°, 60°$ and $90°$, and $\tan\theta$ for $\theta = 0°, 30°, 45°$ and $60°$ Find angles of elevation and depression; understand and use bearings
13 – Volume
MathsWatch clips: 114a-115, 119
Calculate the volume and surface area of solids made from cuboids and prisms including cylinders Use volume to solve problems e.g. leaking water tank type problems
14 – Statistics 2
MathsWatch clips: 186-187, 205
Produce and interpret a range of charts and graphs: cumulative frequency curve, histograms, box plots Understand and use frequency density; find the median from a histogram Find the median, quartiles and interquartile range from grouped or ungrouped data and from a cumulative frequency curve Use box plots to compare distributions
15 – Simultaneous Equations
MathsWatch clips: 140, 162
Solve linear simultaneous equations Understand that the solution to a pair of simultaneous equations may be represented as the point of intersection of two linear graphs
16 – Constructions and Loci
MathsWatch clips: 145a-147

Be able to construct the following: perpendicular bisector, perpendicular from a point on a line, perpendicular from a point to a line, angle bisector, equilateral triangle Construct loci: use constructions to find regions bounded by circles, regions a given distance from a point or a line, regions nearer or further from points, corners, lines or edges on a diagram Find a region that satisfies a combination of loci

Higher Tier Topics

1 – Pythagoras' Theorem, Trigonometry and Geometry
MathsWatch clips: 120-124, 150a-c, 168, 173, 203, 217-218
Angles facts: angles at a point, angles at a point on a straight line, angles in different types of triangles, angles in parallel lines; find missing angles and give reasons for angle calculations Interior and exterior angles of polygons Know and use Pythagoras' Theorem Know the three trigonometric ratios (SOHCAHTOA) and use them to find missing sides or angles: sin θ = opposite/hypotenuse, cos θ = adjacent/hypotenuse, tan θ = opposite/adjacent Know the exact values of sin θ and cos θ for θ = 0°, 30°, 45°, 60° and 90°, and tan θ for θ = 0°, 30°, 45° and 60° Find angles of elevation and depression; understand and use bearings
2 – 2D and 3D Shape
MathsWatch clips: 53-56, 114a-119, 149, 167, 169-171
Area and perimeter of triangles, rectangles, parallelograms, trapezia; area and perimeter of compound shapes Nets of 3D shapes; plans and elevations Identify parts of a circle: centre, radius, chord, diameter, circumference, tangent, arc, sector, segment Find the circumference and area of circles; find the lengths of arcs and the perimeter and area of sectors Give answers for area and circumference/perimeter as decimals or as exact values (in terms of π) Calculate the volume and surface area of solids made from cuboids, prisms including cylinders, cones, pyramids, spheres and hemispheres Use volume to solve problems e.g. leaking water tank type problems
3 – Transformations
MathsWatch clips: 48-50, 113, 148, 181a-182
Find the midpoint of a line segment; solve problems involving co-ordinate points and geometric reasoning Reflect shapes on co-ordinate grids; identify mirror lines Rotate shapes given a centre of rotation, angle and direction; describe a rotation Translate shapes by given vectors, identify translation vectors Enlargement shapes given a scale factor (including fractional and negative values) and centre of enlargement Carry out a sequence of transformations; describe an equivalent single transformation; identify invariant points
4 – Similarity
MathsWatch clips: 144, 166, 201
Identify similar and congruent shapes Recognise that corresponding angles are the same in similar shapes, but corresponding lengths are not Find scale factors between similar shapes; use scale factors to find missing lengths Recognise congruent triangles (SSS, SAS, ASA, RHS) Understand the connection between length, area and volume scale factors in similar shapes
5 – Statistics
MathsWatch clips: 128a-130b, 152-153, 176, 186-187, 205
Produce and interpret a range of charts and graphs: pictograms, composite bar charts, dual bar charts, vertical line graphs, pie charts, frequency diagrams for grouped data, stem-and-leaf diagrams, scatter graphs, line graphs, frequency polygons, cumulative frequency curve, histograms, box plots Find the mean, median, mode and range from simple data and from a frequency table Find the modal class and median group from data in a grouped frequency table, estimate the mean from a grouped frequency table using the mid-points of the groups Understand and use frequency density; find the median from a histogram

Find the median, quartiles and interquartile range from grouped or ungrouped data and from a cumulative frequency curve Use box plots to compare distributions; use an average and a measure of spread to compare two sets of data
6 – Number
MathsWatch clips: 66-69, 75-83, 90-92, 131, 154, 188-189, 207a-207b
Recall multiplication facts up to 15 x 15 (and the associated division facts); know the squares and cubes of 2, 3, 4, 5 and 10, know the triangular numbers; add, subtract, multiply and divide with negative numbers Use mental and written methods for addition, subtraction, multiplication and division Use BIDMAS and the laws of indices; use fractional and negative indices; find reciprocals Calculate with standard form; convert between ordinary numbers and standard form Factors and multiples, HCF (highest common factor) and LCM (lowest common multiple) of two numbers, prime number and prime factor decomposition Use a calculator when working with time and money, and with powers and roots Round values to a given number of decimal places or significant figures; use rounding to 1 significant figure to estimate answers to calculations Use and simply surds, leave answers in terms of surds
7 – Algebra Skills and Sequences
MathsWatch clips: 93-94, 102-104, 134a-134b, 141, 157-158, 163, 178, 192, 209a, 210a, 213
Simply algebraic expressions by collecting terms; multiply with letters and numbers Expand (multiply out) single, double and triple brackets; factorise algebraic expressions Quadratics: factorise, complete the square, recognise and factorise a difference of two squares Simplify algebraic fractions by cancelling common factors Find missing numbers in a sequence and determine whether a number is in a sequence Generate sequences using an n^{th} term; find the n^{th} term of linear and quadratic sequences Extend simple geometric progressions and Fibonacci style sequences
8 – Equations, Inequalities and Formulae
MathsWatch clips: 100-101, 135a-139, 157, 190-191, 198, 209b, 212
Distinguish between equations, formulae, identities and expressions Solve equations with unknowns on both sides, with fractional co-efficients, and with brackets Derive an equation and interpret the solution in terms of the original context Substitute values into expressions and formulae Solve inequalities and illustrate the solution on a number line Solve linear inequalities in two variables and illustrate the solution on co-ordinate axes Solve quadratic equations by factorising, completing the square and the quadratic formula Solve equations with algebraic fractions Change the subject of a formula (rearrange a formula)
9 – Functions
MathsWatch clips: 214a-215
Use function notation Find composite functions and inverse functions
10 – Fractions, Decimals and Percentages
MathsWatch clips: 71-74, 84-89, 108-111, 164, 177, 189
Find equivalent fractions; compare and order fractions; simplify fractions Add, subtract, multiply and divide fractions; convert between improper fractions and mixed numbers Write one number as a fraction or percentage of another Convert between fractions, decimals and percentages, including converting recurring decimals into fractions Find fractions and percentages of amounts; calculate percentage profit and loss Solve real-life percentage problems e.g. VAT, simple / compound interest, income tax, growth / decay problems Solve percentage problems including finding the original value (reverse percentages) and involving repeated percentage change using multipliers raised to powers
11 – Algebraic Graphs
MathsWatch clips: 95-99, 133, 143, 159a-161, 208, 209c, 216a-216b
Draw straight line (linear) graphs

Find the gradient and y-intercept of linear graphs; understand gradients of parallel and perpendicular lines
Find the equation of straight lines with given properties e.g. parallel to a given line and through a given point
Plot and interpret real-life graphs e.g. distance-time graphs, conversation graphs
Plot graphs of quadratic, reciprocal and cubic functions
Calculate areas under graphs and interpret the results in real-life
Find the gradient of a point on a curve using a tangent

12 – Compound Measures

MathsWatch clips: 105, 112, 142a-142c, 216a

Convert between metric and imperial units of measure including measures of length, area, volume and compound measures
Use exchange rates; calculate speed, density and pressure

13 – Probability

MathsWatch clips: 125-127b, 151, 175, 185, 204

Understand the probability scale from 0 to 1; know that probabilities add to 1; list outcomes systematically
Find probabilities based on relative frequency or theoretical probability
Draw and use two-way tables, sample space diagrams and Venn diagrams
Draw and use tree diagrams, including for conditional probability (without replacement)
Know when to add or multiply probabilities

14 – Constructions and Loci

MathsWatch clips: 145a-147

Be able to construct the following: perpendicular bisector, perpendicular from a point on a line, perpendicular from a point to a line, angle bisector, equilateral triangle
Construct loci: use constructions to find regions bounded by circles, regions a given distance from a point or a line, regions nearer or further from points, corners, lines or edges on a diagram
Find a region that satisfies a combination of loci

15 – Simultaneous Equations

MathsWatch clips: 140, 162, 211

Solve a pair of linear simultaneous equations; solve simultaneous equations with one linear, one non-linear
Understand that the solution to a pair of simultaneous equations may be represented as the point of intersection of two graphs
Find approximate solutions to quadratics using graphs; use graphical methods to solve simultaneous equations

16 – Ratio and Proportion

MathsWatch clips: 106-107, 165a-165c, 199, 200a-200c

Use ratio notation; write ratios in their simplest form; divide a quantity into a ratio
Apply ratios to real-life contexts such as recipes, conversions; use the unitary method
Best buy calculations; proportion calculations involving fractions and ratios; interpret maps and scale diagrams
Find the constant of proportionality (k) in a proportion relationship; find algebraic formulae for direct and inverse proportion; recognise and interpret graphs for direct and inverse proportion

17 – Circle Theorems

MathsWatch clips: 183-184

Understand, use and prove the following circle theorems:

- a tangent to any point on a circle is perpendicular to the radius at that point
- the angle subtended by an arc at the centre is twice the size of the angle subtended by the same arc at the circumference
- the angle in a semi-circle is a right angle
- angles in the same segment are equal
- opposite angles of a cyclic quadrilateral sum to 180°
- the alternate segment theorem
- a radius that is perpendicular to a chord bisects the chord
- tangents from a point to a circle are equal in length

Find missing angles on diagrams; give reasons for calculation using the circle theorems

Music: 14/11/2024

Topics to revise:

Section A: Listening/Unfamiliar

Area of Study 1 https://drive.google.com/drive/folders/1Zzx03okphtT1VQK-jXjysBoYfyT2UU-4?usp=drive_link

- Oratorios and Coronation Anthems of Handel (Baroque)
- Orchestral Music of Mozart, Haydn and Beethoven (Classical)
- Romantic Piano Music of Chopin and Schumann (Romantic)
- Requiems of the Late Romantic Period (Romantic)

Area of Study 2
https://drive.google.com/drive/folders/17iorbwYutFCEfXZ6vxnUkdmQd5QyBMnD?usp=drive_link

- Music of Broadway 1950s to 1990s
- Rock Music of the 1960s and 1970s
- Film and Gaming Music from 1990s to present
- Pop Music from 1990s to present

Area of Study 3 https://drive.google.com/drive/folders/1F-d_2WJSD9ZZ7npLJJAPsk4ftXeGMR8u?usp=drive_link

- Blues Music from 1920s – 1950s
- Fusion Music incorporating African and/or Caribbean Music
- Contemporary Latin Music
- Contemporary Folk Music of the British Isles

Section B: Study Piece "Little Shop of Horrors"

- All revision resources (Google Classroom Assignment) https://drive.google.com/drive/folders/1Af6O9mgtzbmqYk8Zy0Fz7v6FquiU8ZQ4?usp=drive_link
- Practice Questions and Mark Schemes https://drive.google.com/drive/folders/1Af6O9mgtzbmqYk8Zy0Fz7v6FquiU8ZQ4?usp=drive_link

Revision resources:

Please click on the following links for resources on my Google Drive

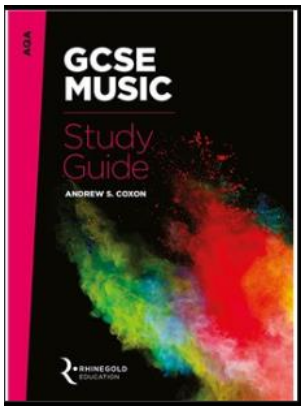
- Keywords Cards, Anthology booklet relating to MP3 of music we have listened to on the course https://drive.google.com/drive/folders/1PSCCvDjvnWrxi9jUrufq7hK3bgETI7MQ?usp=drive_link
- Past Papers including MP3 files and Mark Schemes https://drive.google.com/drive/folders/109mpQKVWFZYbeUm6GCk-2koK3AjnD6Sv?usp=drive_link
- BBC Bitesize (warning – there is a lot of material that is not relevant, for example, we don't need to study Renaissance Music. To be honest, I would start with our own resources first!) GCSE Music - AQA - BBC Bitesize

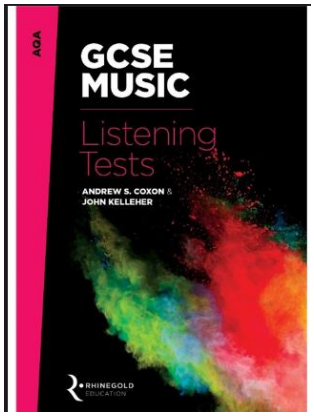
WARNING! – We have not yet studied Area of Study 4 "Western Classical Tradition from 1910" You do <u>not</u> need to revise these topics:

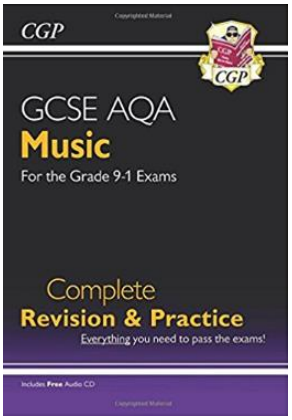
- The orchestral music of Copland.
- British music of Arnold, Britten, Maxwell-Davies and Tavener.
- The orchestral music of Zoltán Kodály and Béla Bartók.
- Minimalist music of John Adams, Steve Reich and Terry Riley.

Please bare this in mind whilst attempting past papers and revising from BBC Bitesize

These books are good but they do overload on some unnecessarily detailed contextual information. There are also a few errors in them! Rhinegold publishing is not connected to AQA in any way and therefor do not have AQAs stamp of approval. The CGP is also a good revision guide. MAKE SURE YOU BUY THE <u>AQA</u> VERSION!!







Physics (including DA science): 27/11/2024

Checklist for Students:

- P1 Energy
- P2 Electricity
- P3 Particles
- P4 Radioactivity

Revision resources:

- Knowledge organiser and checklists have been allocated to you via class charts for all of these units
- Two past papers have also been allocated to you to use for revision via class charts.
- A Showbie Science Revision room has been set up for you to join to have extra revision resources at your fingertips. Code: MM6TU
- Science afterschool support and coaching every Thursday in Lab 3. 3:15 to 4:30pm.
- Past papers – download from the AQA website AQA | Find past papers and mark schemes
- Revision guide, workbooks, revision card pack can be ordered from the school shop.
- Cognito videos with linked worksheets for each small topic/key concept Cognito - YouTube
- Seneca learning Free Homework & Revision for A Level, GCSE, KS3 & KS2 (senecalearning.com)
- Focus science software to revise the required practicals: Focus eLearning by Focus Educational Software ltd.
- Cognito Resources - Past Papers - GCSE > Qs by Topic > Physics > AQA
- GCSE Physics (9-1) - YouTube

SENECA

P1 - Energy	Seneca Learning Combined Science: Physics Course: Energy Folder	
P2 - Electricity	Seneca Learning Combined Science: Physics Course: Electricity Folder	
P3 - Particle Model of Matter	Seneca Learning Combined Science: Physics Course: Particle Model of Matter Folder	
P4 - Atomic Structure	Seneca Learning Combined Science:Physics Course: Atomic Structure Folder	

Physics Paper 1: Required practical	Required practical review of: Specific heat capacity, Resistance, I-V Characteristics and Density.	

Spanish: Listening/Reading: 11/11/2024; Writing: 25/11/2024, 2024 (for students with a clash) & 26/11/2024

Topics to revise:

Format of the Exams

We are sitting 3 papers in the mocks

	Foundation timing	Higher timing
Listening	35 minutes	45 minutes
Reading	45 minutes	60 minutes
Writing	60 minutes	75 minutes

Listening exam:

Question styles include multiple choice, positive/negative/both, identifying tenses, short answers in English and short answers in Spanish. Section A is question and answers in English and section B Questions and answers in Spanish. The exam includes 5 minutes reading time before the exam in which students can read through the paper and make any notes they wish - this is a good time to predict some of the vocabulary they may hear.

Reading exam:

Question styles include multiple choice, positive/negative/both, identifying tenses, short answers in English and short answers in Spanish. Section A is question and answers in English and section B Questions and answers in Spanish. There is also a translation question from Spanish to English.

Writing exam

Foundation paper:

Write 4 sentences to describe a photo

Write a 40 word essay based on 4 prompts (can just be in one tense)

Translation of 5 sentences to Spanish

90 Word essay based on 4 bullet points - must use at least 3 tenses

Higher paper

90 Word essay based on 4 bullet points - must use at least 3 tenses

150 word essay based on 2 bullet points

Translation of a short paragraph to Spanish

Topics

The reading and listening papers will be proper past papers to give you a proper taste of the exam. You have been given Quizlet study decks to revise to help you with any topics we may not yet have covered in the paper. Keep revising these and your vocabulary from topics we have done. Use your vocab learning booklet to support you. Remember the key to success is having as broad a vocab as possible. For these exams you need to recognise rather than produce vocabulary

The writing exam will be based on topics we have covered therefore it could include

Holidays

Family and friends
School
Leisure and Technology

Revision resources:

- There are lots of resources in our Google classrooms - both your own class specific classroom and the GCSE revision classroom (code: ehctkih)
- These include:
- Quizlet vocabulary decks.
- Links to past papers and Questions.
- Writing support mats.
- Grammar revision videos and sheets.
- Knowledge organisers.
- You can also use the revision guide and work books and your vocabulary revision booklet and all classwork in your books.
- Ensure that you revise the specific vocabulary decks on Quizlet for the listening and reading but be aware that there will also be other vocabulary that we have covered in topics taught to date.
- For the writing revise key verbs in different tenses and transferable phrases to use no matter what titles you get by reviewing the different writing mats.

Revision Timetable

Date _____

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:45 - 9.05	Tutor Time	Tutor Time	Tutor Time	Tutor Time	Tutor Time		
9.10 -10.20	Break	Break	Break	Break	Break		
10.20 - 10.35	Lesson	Lesson	Lesson	Lesson	Lesson		
10.35 - 11.45	Changeover	Changeover	Changeover	Changeover	Changeover		
11.50 -1.00	Lesson	Lesson	Lesson	Lesson	Lesson		
1.00 - 1.40	Lunch	Lunch	Lunch	Lunch	Lunch		
1.40 - 2.00	Tutor Time	Tutor Time	Tutor Time	Tutor Time	Tutor Time		
2.00 - 3.15	Lesson	Lesson	Lesson	Lesson	Lesson		
3.15 - 4.15	A/S coaching	A/S coaching	A/S coaching	A/S coaching			
4:15 - 4:45							
4:45 - 5:15							
5:15 - 5:45							
5:45 - 6:15							
6:15 - 6:45							
6:45 - 7:15							
7:15 - 8:45							
4:15 - 4:45							

Topics to revise this week:

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Revision Timetable – half term

Date _____

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:45 - 9.05							
9.10 -10.20							
10.20 - 10.35							
10.35 - 11.45							
11.50 -1.00							
1.00 - 1.40							
1.40 - 2.00							
2.00 - 3.15							
3.15 - 4.15							
4:15 - 4:45							
4:45 - 5:15							
5:15 - 5:45							
5:45 - 6:15							
6:15 - 6:45							
6:45 - 7:15							
7:15 - 8:45							
4:15 - 4:45							

Topics to revise this week:

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Revision Timetable

Date _____

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:45 - 9.05	Tutor Time	Tutor Time	Tutor Time	Tutor Time	Tutor Time		
9.10 -10.20	Break	Break	Break	Break	Break		
10.20 - 10.35	Lesson	Lesson	Lesson	Lesson	Lesson		
10.35 - 11.45	Changeover	Changeover	Changeover	Changeover	Changeover		
11.50 -1.00	Lesson	Lesson	Lesson	Lesson	Lesson		
1.00 - 1.40	Lunch	Lunch	Lunch	Lunch	Lunch		
1.40 - 2.00	Tutor Time	Tutor Time	Tutor Time	Tutor Time	Tutor Time		
2.00 - 3.15	Lesson	Lesson	Lesson	Lesson	Lesson		
3.15 - 4.15	A/S coaching	A/S coaching	A/S coaching	A/S coaching			
4:15 - 4:45							
4:45 - 5:15							
5:15 - 5:45							
5:45 - 6:15							
6:15 - 6:45							
6:45 - 7:15							
7:15 - 8:45							
4:15 - 4:45							

Topics to revise this week:

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Revision Timetable

Date ____________

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:45 - 9.05	Tutor Time	Tutor Time	Tutor Time	Tutor Time	Tutor Time		
9.10 -10.20	Break	Break	Break	Break	Break		
10.20 - 10.35	Lesson	Lesson	Lesson	Lesson	Lesson		
10.35 - 11.45	Changeover	Changeover	Changeover	Changeover	Changeover		
11.50 -1.00	Lesson	Lesson	Lesson	Lesson	Lesson		
1.00 - 1.40	Lunch	Lunch	Lunch	Lunch	Lunch		
1.40 - 2.00	Tutor Time	Tutor Time	Tutor Time	Tutor Time	Tutor Time		
2.00 - 3.15	Lesson	Lesson	Lesson	Lesson	Lesson		
3.15 - 4.15	A/S coaching	A/S coaching	A/S coaching	A/S coaching			
4:15 - 4:45							
4:45 - 5:15							
5:15 - 5:45							
5:45 - 6:15							
6:15 - 6:45							
6:45 - 7:15							
7:15 - 8:45							
4:15 - 4:45							

Topics to revise this week:

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