Year 9 Mid-Year Assessment Revision Topics

10th – 16th December 2025



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Biology				
There will be 1 Science paper, 60 minutes long. 20 minutes will assess Biology knowledge.				
Topics included: Ecology				
 □ Identify food chains within a food web □ Draw and interpret pyramids of number □ Describe how decay occurs and the factors that can speed it up □ Explain why decay is important in food chains □ Describe how the animals in a food web are interdependent □ Describe the factors that affect the population of single organism □ Suggest what may happen to other members of the food web when the population of one member changes □ Explain the term 'bioaccumulation' and describe the impact it can have on consumers at the top of food chains □ Describe how the numbers of predator and prey animals are linked □ Explain the importance of insects such as bees to our food security □ Describe a sampling method to estimate populations □ Classify organisms given appropriate information □ State the features of the 5 main chordate groups □ Describe and explain the adaptations of organisms that make them better competitors □ Explain why genetic variation in a species can drive natural selection □ Describe and explain the evidence for evolution □ Describe the factors that may lead a species to become extinct □ Describe the importance of biodiversity and some of the methods used to maintain it 				
There is also a synoptic element meaning any Biology topics from Year 7 and 8 can be included.				
Useful resources: Knowledge organisers and curriculum details can be found at Independent Study Students Stockport Academy				
Students can access revision materials by logging onto your Sparx science account. Free Homework & Revision for A Level, GCSE, KS3 & KS2 (senecalearning.com)				

Chemistry

There is 1 Science paper that is 60 minutes long. 20 minutes will assess Chemistry.
Topics include: Reactivity
 □ Use the periodic table to work out numbers of protons, neutrons, and electrons for any given element □ Explain why most atoms react, but group 0 do not □ Describe what an ion is and draw a diagram to show how atoms become ions □ Use charges to write formula for ionic compounds □ Calculate relative formula mass for given compounds □ Write equations for the reactions of metals with acids □ Describe the test for hydrogen gas and the positive result □ Write word equations for the reactions of metal oxides and metal carbonates with acids □ Describe the test for carbon dioxide and the positive result □ Name the salt produced from a range of neutralisation reactions □ Know the formula for common acids – hydrochloric, sulphuric, and nitric □ Write word or symbol equations for displacement and neutralisation reactions □ Use the reactivity series to predict if a chemical reaction will take place □ Explain how metals can be extracted from their ores using carbon □ Identify oxidation and reduction in given equations □ Explain how differences in reactivity can be used to produce a voltage and how this can be varied □ Define an alloy and explain why they are often more useful than pure metals □ Link the properties of metals to their uses
There is also a synoptic element meaning that Chemistry topics from Year 7 and 8 may also be included.
Useful resources:
Knowledge organisers and curriculum details can be found at <u>Independent Study Students Stockport Academy</u>
Students can access revision materials at Sparx Science by logging onto your Sparx Science account

English

Paper One is 45 minutes and assesses students' reading ability.

Students will be asked to respond to one question on one of the Crime Fiction texts they read last term: **The Speckled Band**.

Students will be given a question that will focus on either a character or theme from the text. For example:

How is the character of Sherlock Holmes presented in this story?

Or

How does the writer present ideas about power throughout the text?

The criteria below outlines the skills students are assessed on:

- The student can present ideas about the text and give reasons for the ideas which form a developed and coherent response.
- The student can provide a detailed explanation of the impact of the writer's methods.
- The student can select a range of relevant evidence/references from different parts of the text to support ideas.
- The student can use a range of appropriate subject terminology/vocabulary specific to the text type and specifically refers to the writer's intent.



Revision Materials

- Knowledge Organiser
- Revision booklet to be provided by teacher
- BBC Bitesize

Paper Two is 45 minutes and assesses students' writing ability.

Students will be asked to complete a transactional writing task. For example:

Write a letter to the Principal arguing your opinion on the following statement:

"I think homework is integral to ensuring young people are ready to revise independently in their exams by Y11"

The criteria below outlines the skills students are assessed on:

- Accurate use of persuasive rhetoric.
- A developed response with structure and vocabulary chosen for effect.
- Accurate use of a range of punctuation beyond full stops, commas, capital letters, and apostrophes.
- Accurate spelling of all words including some ambitious vocabulary.



French

There will be two papers each 45 minutes long.

- 1. Receptive (Listening and Reading skills)
- 2. Productive (Writing skills)

Both papers will cover the following units of study: -

~	Relationships with Family and Friends		
	Character descriptions and relationships		
	Free time activities in the past and future		
	A good friend		
	My ideal partner		
	When you were younger		
	Festivals and Traditions		
	Food and drink		
	Festivals around the world		
	Celebrations in the past and future		

Linguistic structures
Infinitives
Present tense verbs
Reflexive verbs
The Perfect tense
The Future tense
Negatives
Opinions and justifications
Agreement of adjectives
Connectives
Quantifiers
Time expressions

Useful resources: -

- Knowledge Organisers
- United Learning Fluency Booklets
- Sentence Builders
- Language Nut
- BBC Bitesize

Geography

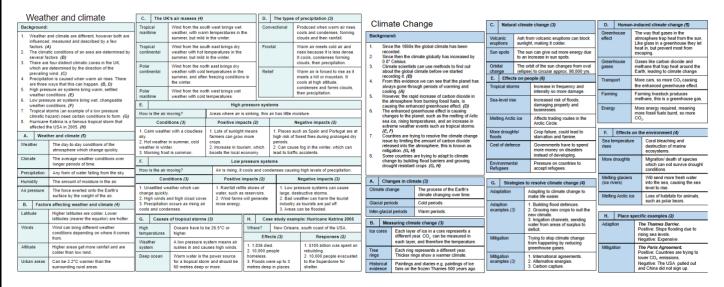
There will be one paper, 60 minutes long.

It will contain questions relating to the following units:

- Weather & climate
- Climate change

Useful resources:

- Knowledge organisers for both units are available here: <u>Stockport Academy > Information > Curriculum > Humanities (stockport-academy.org))</u>
- Fluency sheets (each pupil has these stuck in their books at the start of each unit).



- Pupils must know about a named example of a weather event. We studied Cyclone Idai. For this they must learn at least specific facts about the tropical storm (for example the city most affected), 2 impacts (for example death toll) and 2 responses (for example search & rescue).
- Pupils must learn the different types of evidence that show climate change is taking place and the causes of climate change (both natural and human).
- SENECA key stage 3 geography, the weather and climate change units will be helpful. We have set these for all Y9 classes to work through. Their log in for SENECA is the same as last year or pupils can log in using Microsoft 365, which is their school email address and password.
- Exercise books are very useful as they contain everything that has been taught. Pupils can take their books home, but must remember to bring them in when they have geography lessons. They are no use if left in the classroom in a box all the time!

History

There will be one paper, 60 minutes long.

World War 1

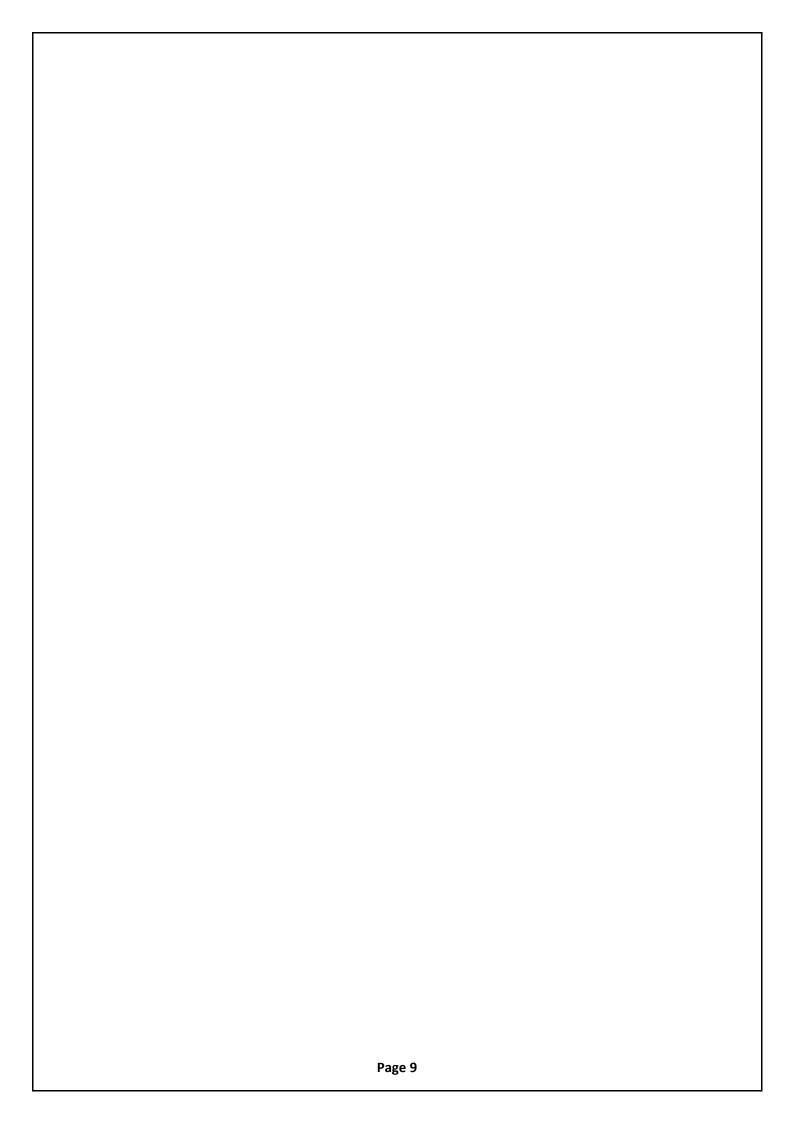
- Long Term Causes MAIN
- Short Term Causes The Assassination of Archduke Franz Ferdinand
- The Western Front Conditions, features of a trench
- The Treaty of Versailles the terms

The Suffrage Movement

- Suffragist Movement
- The Suffragettes
- How War time got women the right to vote

Pupils will be asked knowledge questions, source questions and interpretation questions.

• Exercise books are very useful as they contain everything that has been taught. Pupils can take their books home, but must remember to bring them in when they have History lessons. They are no use if left in the classroom in a box all the time!



Information Technology and Enterprise

One 30 minute exam

Programming

- Use of variables
- Use of functions
- Use of loops
- Use of if statements
- Begin to use user defined functions
- Create programming code to solve problems
- Testing / Errors

Enterprise

- Entrepreneurs
- Market research
- Research methods
- Business promotion methods

Useful resources

KS3 Computer Science - BBC Bitesize KS3 Computer Science - BBC Bitesize

Or knowledge organisers on school's website

Or for Enterprise, the students exercise book or episodes of Dragon's Den.

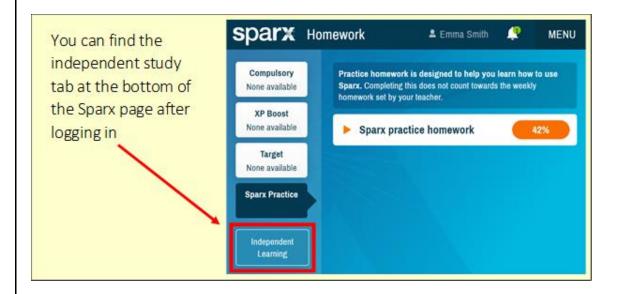
and Students can access revision materials at Seneca Learning. <u>Free Homework & Revision for A Level, GCSE, KS3 & KS2 (senecalearning.com)</u> - look for ks3 computing.

Mathematics

One paper – 60 minutes – Calculator

The assessment will be a include topics from years 7 to present. Below are the topics studied so far this year. By going onto the independent study section on Sparx (shown below), you can use the Sparx codes to get questions and videos to help you revise the topics. If you have any questions, please ask your teacher.

Topic		Sparx Codes
9.01	Decimal Manipulation	U417, U478, M462, U735, U127, U293, U453, U868, U976
9.02	Estimation and Limits of Accuracy	U480, U298, U731, U965, U225, U657, U587, U108, U301
9.03	Related Calculations	U735
9.04	HCF and LCM of Large Numbers	U211, U751, U529, U236, U739, U250
9.05	Fraction Calculations	U736, U692, U793, U475, U224, U544, U538, U881, U916, U163
9.06	Algebraic Manipulation	M795, U613, M830
9.07	Index Laws	U105, U622, U103, U437, U685, U457, U824
9.08	Standard Form	M719, M678, U264, U290
9.09	Expanding and Factorising	U179, U365, U768, U178, U963



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Physics
There is 1 Science Paper, 60 Minutes long. 20 minutes will assess Physics knowledge.
Topics include: Forces in Action and Electricity and Magnetism
Forces in action:
 □ Identify levers, pivots and forces applied □ Define a 'moment' and calculate it using data supplied □ Explain, in terms of moments, what happens when an object is balanced □ Calculate forces needed or distance from the pivot required to achieve balance □ Define the term 'simple machine' and give some examples □ Calculate work done and give the unit □ Calculate averages, ignoring anomalies, and round them to the same decimal places as original data □ Recognise and describe a proportional relationship □ Describe what is meant by 'elastic deformation' and elastic objects □ Explain what is meant by the 'elastic limit' of an object and recognise this on a graph □ Use Hooke's Law to calculate force, extension, or spring constants □ Describe the difference between reproducible data and reproducible conclusions and relate this to the Hooke's Law practical
Electricity and Magnetism:
 □ Explain how an electrical circuit works using the words charge, current and voltage □ Identify major circuit symbols □ Describe what is meant by the term voltage and how it is measured □ Describe how current behaves in a series circuit and how to measure it □ Describe what happens to current when more components are in a circuit and explain why □ Describe how current behaves in a parallel circuit and explain why □ Identify series and parallel circuits from circuit diagrams □ Describe what happens to current in a circuit if the wires are made longer □ Use the term resistance to explain why longer wires have this effect □ Use Ohms law to calculate voltage, resistance or current □ Explain how insulators can get a static charge □ Use a graph to predict other values □ Identify the key variable sin an investigation on electromagnets □ Describe magnetism using field lines □ Describe how both an electromagnet and an electric motor works
There is also a synoptic element meaning that Physics topics from Year 7 and 8 may also be included.
Useful resources:
Knowledge organisers and curriculum details can be found at <u>Independent Study Students Stockport Academy</u>
Students can access revision materials at Sparx Science by logging onto your Sparx Science account

Religious Studies

40 Minutes

Islam

- 5 Pillars
- Mosque

Life and Death

- Abortion
- Natural law
- Situation Ethics

You should use the below to help you revise:

- Knowledge organisers
- Exercise books

Keyword	Definition
5 pillars of Islam	The set of rules and guidance for a Muslim to live by.
Shahada	Declaration of faith
Salah	Prayer 5 times a day
Zakat	Dnating 2.5% to charity
Sawm	Fasting, the month of fasting is called Ramadan
Најј	Holy Pilgrimage to Mecca, Muslims should try and complete this once in their lifetime.
Akhira	Day of judgement when a Muslim dies

Angels:

Knowledge Organiser | Islam

Angel Jibril - Messenger of Allah, delivered the message about the birth of Isa to Miriam.

Angel Mikai'l - Angel of forgiveness and protector of holy buildings

- Ihram The clothing that Muslims wear to go on Hajj and the preparations that Tawaf – Walking around the Kaaba 7 times anti – clockwise Sa'y – Walking between Safa and Marwah 7 times
- 2. 3. 4. 5. 6. Arafat – Seek forgiveness at the place Muhammad gave his final sermon Jamarat – Throw pebbles at large pillars to physically reject the devil
- Sacrifice Sacrifice a sheep or goat for Eid ul Adah

Features of a Mosque -

- 1. Oiblah wall
- 2. Minarets
- 3. Minbar 4. Mihrab

Evil and Suffering -

The day of judgement is where all your good deeds are weighed against your bad deeds for Allah to judge, there are many stages to this process which may mean your time in Barzakh is peaceful or torture

Knowledge Organiser | Life & Death

What's the right thing to do?

- **Philippa Foot** was the thinker behind the Trolley problem. Whether to pull lever and kill 1 person or leave the train to hit 5 people.

 This is a moral dilemma which questions
- people's ethical choices.

Natural Moral Law
Thomas Aquinas was the Christian thinker
behind the Natural Moral Law. There were 5
primary precepts (rules) that humans must
follow (use 'POWER' to remember them):

Preserve Life Live in an Ordered society Worship God Educate Children Reproduce

To assist with these Aquinas developed Secondary precepts which help people to live by the Primary ones. Fig. Educate children by sending them to school, and Preserve Life by not having an abortion.

Criticisms of Natural Moral Law

- riticisms of Natural Moral Law
 Some Christians interpret these rules in an
 absolutist way they want to follow them
 completely, so that may create a moral
 dilemma for them if they, for example, need
 an abortion due to health reasons.
 Taking into account the whole person
 They are based on a Christian idea of God
 (not everyone is Christian).

Situation Ethics

- Joseph Fletcher was the thinker behind Joseph Fletcher was the thinker behind Situation ethics. Fletcher said that we should do "the most loving thing" in any situation and focused on the use of the word Agape. For example, in the issue of Abortion if the woman's life is at risk from giving birth maybe the most loving thing to do is to have an abortion.
- This focuses on Quality of Life.

Criticisms of Situation Ethics

- Slippery Slope: For some things we need important guidelines for important choices, as just doing things on a case-by-case basis could be counter intuitive.
- Is "love" a good guiding principle? What love means to one person might be different to another- instead we should have clear, concise rules
- Some people use "love" to do "unloving" things Scientists using animals for testing medicine.

Euthanasia Capital Punishment Types of Euthanasia; Voluntary Euthanasia, Active Euthanasia, This is the legally Passive Euthanasia and Involuntary Euthanasia.

Euthanasia is illegal in the UK under the suicide act of 1961.

authorised killing of someone as punishment for a crime. Known as the Death Penalty.

Examples: Electric Chair and Lethal injection

Abortion: A procedure to end a pregnancy

Pro-life people would say that abortion is wrong because many believe that life starts at conception (when an egg and sperm meet). Thomas Aquinas' First primary precept to 'Preserve Life' also goes against

Christians and Muslims believe in the **sanctity of life** – this means that life is special (sacred) and a gift from God.

A **Christian** might say "do not kill". This is one of the Ten Commandments from the **Bible**.

They might also say ""God created mankind in our own image" which suggests that humans look like God – so ended a human life is like ending God's life and destroying God's creation.

A **Muslim** might say "do not take a life v made sacred". This is from the **Qur'an**.

They might also say ""If anyone kills a person, it would be as if he killed the whole of mankind" which shows that killing is not permitted in Islam, and causing one death is as terrible as killing everyone.

circumstances that need to be considered, such as the woman's health – is her life at risk? Joseph Fletcher's Idea of doing the "most loving thing" is important here

Everyone has the "right to life" in the UDHR-this includes the pregnant woman, who's life may be at risk; Some people are not ready to have a child; Some people may be pregnant due to assault; some people may fear than another child will cause poverty for their family due to the cost of living crisis.

Spanish

There will be two papers each 45 minutes long.

- 3. Receptive (Listening and Reading skills)
- 4. Productive (Writing skills)

Both papers will cover the following units of study: -

~	Relationships with Family and Friends			
	Character descriptions and relationships			
	Free time activities in the past and future			
	A good friend			
	My ideal partner			
	When you were younger			
	Festivals and Traditions			
	Food and drink			
	Festivals around the world			
	Celebrations in the past and future			

Linguistic structures
Infinitives
Present tense verbs
Reflexive verbs
The Perfect tense
The Future tense
Negatives
Opinions and justifications
Agreement of adjectives
Connectives
Quantifiers
Time expressions

Useful resources: -

- Knowledge Organisers
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- Sentence Builders
- Language Nut
- BBC Bitesize

Revision Timetable

Day	Morning	Afternoon	Review points
Saturday			
Sunday			
Monday			
Tuesday			
Wednesday			
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