Year 8 Mid-Year Assessment Revision Topics

27th – 31st January 2025



Contents Biology 3 Chemistry 4 English 5 French 6 Geography 7 History 8 The reformation 8 Elizabethan Religion 8 Information Technology 9 Mathematics 10 **Physics** 11 **Religious Studies** 12 **PSHE** 13 Spanish 14 **Revision Timetable** 15

Biology

Biology
There will be 1 Science paper, 60 minutes long. 20 minutes will assess Biology knowledge.
Topics included: Digestion and Nutrition and Plants and Photosynthesis
Digestion and Nutrition:
 Name the 7 nutrients found in food and describe what each one is needed for Interpret and make calculations from nutrient values on food labels State the factors that affect the energy requirement of a person State what is meant by the term "balanced diet" Describe some diseases linked to nutrient deficiency and imbalances of energy intake Describe how energy is released from food by respiration and how it is used in the body Describe the difference between the 2 carbohydrates starch and sugar Describe how the chemical tests for fat, protein, starch, and sugar are carried out and their positive results State the names of the organs in the digestive system and describe the function of each one Explain the difference between mechanical and chemical digestion Describe the role of gut bacteria in the digestion process Describe how the intestines are adapted for efficient absorption of digested substance by diffusion Name the enzymes that digest carbohydrates, fats, and proteins Evaluate the model used to explain digestion and absorption in the small intestine Describe how Enzymes work and how temperature affects them.
Plants and Photosynthesis:
 □ Identify and label a root hair cell □ Describe how roots take up minerals, nutrients and water from the soil □ Describe photosynthesis in a word equation representing products and reactants □ Label the internal parts of a leaf □ Describe how leaves are adapted to carry out photosynthesis □ State where stomata are found and what they do □ Identify hazards and risks and suggest appropriate ways to reduce the risks □ Describe how to test a leaf for starch □ Describe the role of the xylem and phloem □ Describe how plants affects the atmospheric carbon dioxide levels □ Give examples of pollinators □ State what is meant by food security □ Describe why pollinators are important for food security
There is also a synoptic element meaning any Biology topics from Year 7 can be included.
Useful resources:
Knowledge organisers and curriculum details can be found at Stockport Academy Information > Curriculum > Science (stockport-academy.org)
Students can access revision materials at Seneca Learning. Free Homework & Revision for A Level, GCSE, KS3 & KS2 (senecalearning.com)

Chemistry			
There is 1 Science paper, 60 minutes long. 20 minutes will assess Chemistry knowledge.			
Topics included: Atoms and the Periodic table.			
 □ Draw and label an atom □ Understand the differences between atoms, elements, and compounds. □ Recognise and interpret chemical symbols for elements and write them correctly □ Describe some properties common to the metal elements and to the non-metal elements □ Draw the electron configuration for the first 20 elements of the periodic table □ Interpret formulae for compounds and write them correctly. □ Represent chemical reactions using particle diagrams to show the rearrangement of atoms. □ Understand the law of conservation of mass and apply it to reactions □ Represent chemical reactions using formulae and using (symbol) equations. □ Explain why elements are grouped together in terms of electron structure □ Write word equations for the reactions of group 1 with oxygen and water □ Describe patterns of reactivity in group 1 and group 7 □ Understand how patterns in reactions can be predicted with reference to the periodic table. □ Recognise anomalies on graphs and know how to deal with them when drawing lines of best fit □ Describe and recognise a proportional relationship on a graph or in data □ Describe patterns in secondary data, using the data points to back up statements made 			
There is also a synoptic element meaning any Chemistry topics from Year 7 can be included.			
Useful resources:			
Knowledge organisers and curriculum details can be found at Stockport-Academy > Information > Curriculum > Science (stockport-academy.org)			
Students can access revision materials at Seneca Learning. Free Homework & Revision for A Level, GCSE, KS3 & KS2 (senecalearning.com)			

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

Students will be asked to respond to one question on the Shakespeare text they have read this term: **Richard III**.

Students will be given an extract from the play, and the question will focus on either a character or theme from the play. For example:

How is the character of Richard presented in this extract?

Or

How does Shakespeare present ideas about ambition in the play?

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.



Students will be asked to complete a creative writing task. Either descriptive writing or a narrative (story). For example:

Write a description of a magical place.

Or

Write a story about a character who is lost.

The criteria below outlines the skills students are assessed on:

- 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.
- Accurate use of paragraphs which are shaped for effect.

English



Revision Materials

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



French

There will be two papers each 30 minutes long.

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

Both papers will cover the following units of study: -

Y8 Revision Booklet

These are the units of work covered in Year 8 and a reminder of the y7 units too. Once you have revised each unit, you can tick it off the list. This booklet contains exercises covering all topics and links to quizzes.

~	Holidays		
	Destinations		
	Transport		
	Accommodation		
	Activities		
	Your usual holidays		
Describing a holiday in t			
Where you would like or will go			
	Going out and Staying in		
	Free time activities		
	Future/Weekend plans		
	Asking someone out		
	Going to a party		
	Favourite TV		
	program/Film/Music		
	Health and Fitness		
	Describing your routine		
How healthy you are			
Recommendations and resolutions for healthy living			
	At the Doctor's		

	\	y7 Content		
		Greetings and Introductions		
		Family		
		School		
		Where I live		

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

Geography

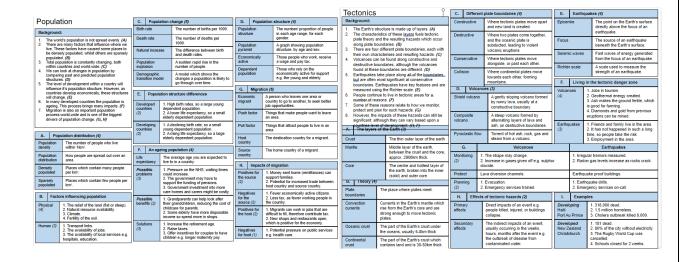
There will be one paper, 60 minutes long.

It will contain questions relating to the following units:

- Tectonics
- Population

Useful resources:

• Knowledge organisers can be found 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).
- They must know about a named example of a tectonic hazard. We studied the Haiti earthquake and the earthquake and tsunami in Japan. For this they must learn the location, date and magnitude one of these earthquakes, the type of plate boundary it is on, a primary and secondary effect and an immediate and long term response.
- SENECA key stage 3 geography, the tectonics and population units will be helpful. We have set these for all Y8 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

The reformation

- Catholicism vs. Protestantism
- Henry VIII
- Why did Henry break with Rome

Elizabethan Religion

- Changes to the Church
- The religious Settlement
- The Catholic Threat
- The Armada

Information Technology

There will be a 30-minute exam based off the topics you have done so far on E-safety, Microbits and Python programming.

- E-Safety and legislation
- Describe the potential consequences of inappropriate content, contact and conduct
- •Can explain how legislation affect online activities
- •Explain how to protect online identify and privacy on a range of platforms
- •Pupils should know not to provide material to others that they would not want shared further and not to share personal material which is sent to them.
- •Pupils should know that sharing and viewing indecent images of children (including those created by children) is a criminal offence which carries severe penalties including jail.
- •Pupils should know their rights, responsibilities, and opportunities online, including that the same expectations of behaviour apply in all contexts, including online.

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 in both block and text based

Useful resources

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

and

Knowledge organisers on school's website

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

Below are the topics to revise for the assessment and the KPI (Key Performance Indicator) number. 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	
□ 8.01	Powers and Roots	M135, M608	
□ 8.02	Prime Factorisation	M322, M823, M108, M365, M227, M698	
□ 8.03	Rounding	M111, M431, M994, M131, M878	
□ 8.04	Fractions	M939, M410, M671, M601, M835, M931, M157, M197, M110, M265	
□ 8.05	Solving equations 1	M707, M509, M387, M554, M813, M795, M531, M957	
□ 8.06	Coordinates and basic graphs	M618, M622, M797	
□ 8.07	Units of measure	M772, M530, M761, M774 (units) M892, M627	
□ 8.08	Angles in Parallel Lines	M163, M818, M319, M606, M393	



Physics

PHYSICS
There is 1 Science paper, 60 minutes long. 20 minutes will assess Physics knowledge.
Topics Included: Light and Sound
Topics Included: Light and Sound Describe the properties of light and light waves Describe the different things that can happen when waves hit a surface Draw accurate ray diagrams Describe the different effects on surfaces by interactions of light Draw reflection diagrams Describe reflected images Describe specular and diffuse reflection Describe how refraction takes place using key words and phrases. Draw the pathway that light takes through a glass block Draw light ray diagrams to show how refraction can affect how we see objects Label the parts of the eye Use ray diagrams to show how images are formed in pinhole cameras and the eye Describe how an image is formed and how we see Describe how the eye focuses on near and far objects Explain the cause of long and short sightedness and how this can be corrected Describe the wisible spectrum' Relate the colours of the visible spectrum to wavelength Explain why we see objects as a particular colour. Describe and explain how coloured filters change white light. Predict the colours of coloured objects in coloured light Describe heat transfer by radiation State the surfaces that are the best at absorbing and emitting radiation Explain everyday observations using an understanding of absorption and emission of radiation Label the main features of a wave diagram Compare light and sound waves Describe what happens when waves meet Describe what happens when sound meets a surface Calculate uncertainty in the results and suggest sources of error Describe how and explain why the speed of sound varies in different media in terms of particles Describe how and explain why the speed of sound varies in different media in different animals Describe what is meant by 'hearing range' and how this differs with age and in different animals Describe was of ultrasound
☐ Explain how the sound waves are used in given contexts
There is also a synoptic element meaning any Physics topics from Year 7 can be included.
Useful resources:
Knowledge organisers and curriculum details can be found at Stockport Academy Information Curriculum Science (stockport-academy.org)
Students can access revision materials at Seneca Learning. <u>Free Homework & Revision for A Level, GCSE, KS3 & KS2 (senecalearning.com)</u>

Religious Studies

40 Minutes

Islam

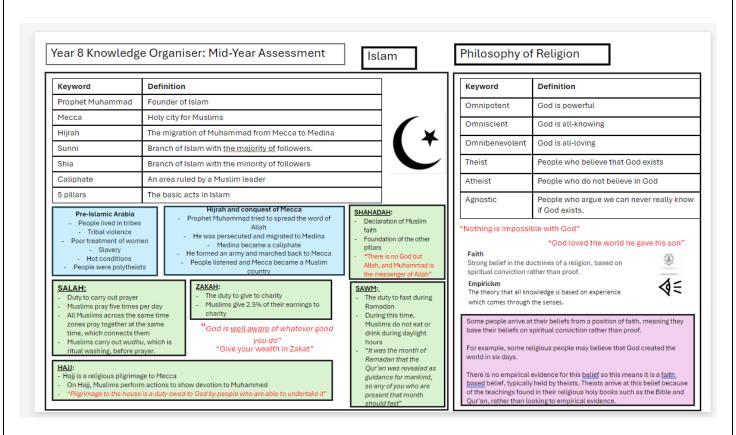
- Holy Books
- Conquest of Mecca
- 5 Pillars

Philosophy of Religion

- Theism, Atheism, Agnostic
- Faith and Empiricism

You should use the below to help you revise:

- Knowledge organisers
- Exercise books



PSHE

30 Minutes

- 10 Commandments
- Punishment
- Law making
- Gender
- Sexuality

You should use the below to help you revise:

- Knowledge organisers
- Exercise books

YR8 Mid Year KO

Topics covered: Criminals law and society and Identity.

Keywords	Definitions		
Law	A set of rules set in a country or place for people to follow		
Punishment	Things that can be used if someone breaks the law.		
House of Commons	The place where parliament sits and creates/debates laws		
Knife Crime	The harm or threatening behaviour caused by holding or using a sharp instrument		
Gender	How a person presents themselves whether it is through clothing, social interaction or appearance		
Sexual Orientation	The gender(s) that someone is attracted to romantically, emotionally and sexually.		
Homophobia	the fear or dislike of someone, based on prejudice or negative attitudes, beliefs or views about lesbian, gay or bi people		
Discrimination	the unjust or prejudicial treatment of different categories of people.		

The age of criminal responsibility in the UK is 10. Usually someone would go to a young offenders institute if convicted of an offence until they are 18

Punishments are based on three main theories, retribution (The act of seeking justice for the victim), reformation (the act of changing someone's behaviour for the better) and Deterrence (The act of putting someone off committing a crime)

Knife crime has risen in the UK over the past 10 years, many believing that "everyone carries a knife" to tackle this there has been increases in community outreach also police stop and search

Large percentages of people that identify as part of the LGBTQA+ within schools feel that more could be done to tackle discrimination as of report in 2019.

Spanish

There will be two papers each 30 minutes long.

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

Both papers will cover the following units of study: -

Y8 Revision Booklet

These are the units of work covered in Year 8 and a reminder of the y7 units too. Once you have revised each unit, you can tick it off the list. This booklet contains exercises covering all topics and links to quizzes.

~	Holidays	
	Destinations	
	Transport	
	Accommodation	
	Activities	
	Your usual holidays	
Describing a holiday in the		
Where you would like or will go		
	Going out and Staying in	
	Free time activities	
	Future/Weekend plans	
	Asking someone out	
	Going to a party	
Favourite TV program/Film/Music		
	Health and Fitness	
	Describing your routine	
How healthy you are		
Recommendations and resolutions for healthy living		
	At the Doctor's	

	/	y7 Content			
		Greetings and Introductions			
		Family			
		School			
		Where I live			

	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

Revision Timetable

Day	Morning	Afternoon	Review points
Saturday			
Sunday			
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			

Day	Morning	Afternoon	Review points
Saturday			
Sunday			
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			

Day	Morning	Afternoon	Review points
Saturday			
Sunday			
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			