

Home learning activities				
Subject				
Science				
Year Group				
Year 10				
Unit of work / Knowledge organiser				
Chemical Changes				
Activities				
Watch all 'GCSEPod' clips on the 'Chemical Changes' Unit.				
Complete the 'GCSEPod' Questions assigned for this Unit of work and any additional assignments which have been set by your teacher.				
Follow the 'Revision Plans' for Biology and Physics				
Complete the assigned activities for the given week on the Biology and Physics revision plans				
Where do you complete the work?				
Use computer/phone for 'GCSEPod' or 'Seneca' and study materials.				
What to do if you finish the work? (Extension activity)				
Sign up for 'Seneca Learning' using the 'Sign Up Guide' sheet and the				

• Sign up for 'Seneca Learning' using the 'Sign Up Guide' sheet and the special passcode: **j5v9tvzq48**. Complete the assignments which have been set.

## These websites might help:

- BBC Bitesize -> Secondary -> GCSE -> Combined Science -> AQA Trilogy -> Chemistry -> Chemical Changes
- www.freesciencelessons.co.uk -> GCSE Videos -> Chemistry Paper 1 -> Chemical Changes

If you are struggling with your work or if you have finished.

Please email your classroom teacher directly using the email list found in the Home Learning section of the website.

### Weekly Biology Revision Plan 2020

### Year 10

As a minimum you should be spending 30-45 minutes on Biology revision per week. The tasks listed below could take more than this if you do all of them so you will need to plan your time effectively. Regular revision is the key to success at GCSE, don't do too much in one go! We recommend approaching this revision as follows:

Primrose Kitten: Combined Science Biology Paper 1 <a href="https://www.youtube.com/watch?v=mKYQ-K23Mr4">https://www.youtube.com/watch?v=mKYQ-K23Mr4</a>

GCSE AQA Combined Science TRILOGY <a href="https://www.bbc.co.uk/bitesize/examspecs/z8r997h">https://www.bbc.co.uk/bitesize/examspecs/z8r997h</a>

- 1. 10-15mins Read, cover and try to remember the information from You Tube and BBC Bitesize
- 2. 10-15mins creating your own revision resource to add to your folder (DO NOT COPY...TRANSFORM the information you have just read into something visual that you can remember)
- 3. 10-15mins Practicing application of what you have just revised, try exam questions and mark them using the mark schemes so you can correct your mistakes immediately!

Week	Paper	Topic	Review	Revise and add to your revision	Teacher
beginning			(Read, cover,	folder	signed
			remember)		
6 <sup>th</sup> Apr		Cell Biology	Cell structure	Create a set of flash cards for each	
•				cell and microscope type	
			Investigating cells		
6 <sup>th</sup> Apr			Cell Division	Create a mind map linking	
				chromosomes, mitosis, stem cells and their uses	
6 <sup>th</sup> Apr	1 _		Transport in and out	Create a comparison table for	
-	l P		of cells	diffusion, osmosis and active	
	•			transport	
13 <sup>th</sup> Apr	Α	Organisation	Levels of	Create a pneumonic to remember	
			organisation	the order of the levels of	
	D			organisation	
13 <sup>th</sup> Apr	P		Digestion	Draw an outline of the digestive	
	_			system and label on what happens	
	ΙE			at each part (including which	
				enzymes work at each part AND	
	R			what they break down)	
13 <sup>th</sup> Mar	1.7		Blood and	Make 3 posters to put up in your	
			circulation	room	
				- The make up of blood and the	
				differences between the 3	
	1			different blood vessels	
	_			- The heart and the direction of	
				blood flow through it	
				- Gas exchange in the lungs	
20 <sup>th</sup> Apr			Non-communicable	Create flash cards for the different	
			diseases	types of disease and their risk	
				factors	
20 <sup>th</sup> Apr			Transport in plants	Draw a plant and a cross section of	
				a leaf and label on the different	
				types of transport. Include	
				information of factors which may	
	]			affect the speed of the transport.	
20 <sup>th</sup> Apr		Infection and	Pathogens and	Create a table of diseases including	
		response	disease	information on pathogen, causes,	
				symptoms and treatment.	
27 <sup>th</sup> Apr	]		Human defences	Create a mind map of all the ways	
			against disease	your body defends against	

		Treating diseases	pathogens and then link this to boosting immunity with vaccines and the different ways we can treat diseases.	
27 <sup>th</sup> Apr	Bioenergetics	Photosynthesis	Draw out the 3 rate of photosynthesis graphs and write a sentence to explain what is happening in each one.	
27 <sup>th</sup> Apr		Respiration and exercise	Make flashcards for each of the key subtitles on this page, be sure to include the 3 equations you need to learn.	

#### <u>Year 10</u>

As a minimum you should be spending 30-45 minutes on Physics revision per week. The tasks listed below could take more than this if you do all of them so you will need to plan your time effectively. Regular revision is the key to success at GCSE, don't do too much in one go! We recommend approaching this revision as follows:

Primrose Kitten: Combined Science Physics Paper 1 https://www.youtube.com/watch?v=xtw-Z0nllA4

GCSE AQA Combined Science TRILOGY <a href="https://www.bbc.co.uk/bitesize/topics/zqw77p3">https://www.bbc.co.uk/bitesize/topics/zqw77p3</a>

- 1. 10-15mins Read, cover and try to remember the information in the revision guide
- 2. 10-15mins creating your own revision resource to add to your folder (DO NOT COPY...TRANSFORM the information you have just read into something visual that can help you to remember)
- 3. 10-15mins Practicing application of what you have just revised, try exam questions and mark them using the mark schemes so you can correct your mistakes immediately!

Week beginning	Paper	Topic	Review (Read, cover, remember)	Revise and add to your revision folder	Teacher signed
6 <sup>th</sup> Apr		Energy	Energy Stores and Transfers	Create a glossary of the key words in RED on this double page spread. Create flash cards containing the rearrangement triangles for the two energy equations you need to learn here.	
6 <sup>th</sup> Apr	P A		Energy transfers and resources	Create sample flow diagrams for 3 or 4 different energy changes e.g. a car accelerating, a skateboarder at the top of a ramp, boiling water in a kettle.  Make flashcards for all the different types of energy resources, include whether they are renewable or not and their advantages and disadvantages.	
6 <sup>th</sup> Apr	P E	Electricity	Introduction to electricity	Create a poster of all the different components, their symbols and what they are used for. Include the charge equation, power equation, efficiency equation and energy transferred equation. Try and put the equations into the rearrangement triangles.	
13 <sup>th</sup> Apr	R		Circuits and resistance	Draw the 3 current/voltage graphs for resistors, filament lamps and diodes and annotate around them to describe what is happening.	
13 <sup>th</sup> Apr	1		Circuits and power	Draw a comparison table for series and parallel circuits. Include diagrams, information on current, resistance and potential difference.	
13 <sup>th</sup> Apr			Domestic uses of electricity	Draw and label/annotate diagrams for D.C, A.C (give examples of appliances that use both current types) and Wiring a three pin plug (explain what each part does).	
20 <sup>th</sup> Apr			Electrical energy in devices	Draw a flow chart to show how electricity gets from the power stations into our homes. Create a flash card with the advantages and disadvantages of overhead and underground cables.	
20 <sup>th</sup> Apr		Particle Model of Matter	Particle model of matter	Draw the particle model for solids, liquids and gasses and annotate the diagrams to include information on their properties.  Draw a labelled diagram of the density practical and annotate with summarised method type bullet points.	
20 <sup>th</sup> Apr		Atomic Structure	Atoms and isotopes	Create a timeline for the development of the model of the atom. Include diagrams of previous models as well as the current accepted model and include the diagrams of the experiments that helped prove this new model.	
27 <sup>th</sup> Apr			Nuclear radiation	Create flash cards for each type of radiation to include their components (diagrams), hazards and what they may be absorbed by.	

		Create a glossary of key terms for the key words in RED and summarise radioactive contamination into a short paragraph.	
27 <sup>th</sup> Apr	Half life	Draw the count rate graph for iodine-128 and explain what its half life is and how you calculate it using the graph.  Create a flash card for nuclear equations and thenPRACTICE, PRACTICE!!	

# 'Seneca Learning' Sign-Up Guide

Passcode: j5v9tvzq48

**Step 1:** Open an internet browser - *Any browser* except Internet Explorer will work.

**Step 2:** Go to <u>SenecaLearning.com</u>

Step 3: Click on "Get Started" or "Sign Up"

**Step 4:** Create your account - If you don't know your parent email, then type: N/A.

**Step 5:** Click on "Classes & Assignments" - You'll find this in the top menu.

**Step 6:** Click on "Join Class" - It's the green button in the top right corner.

**Step 7:** Type the code from your teacher - *If you received a link instead, then open the link.*