Year 7

Topics	Energy 1 (energy transfer)	
Prior knowledge / skills	 Heat is a form of energy Food gives us energy 	
Key concepts / knowledge / skills covered this half term	 Energy is stored and transferred and wasted Conservation of energy Appliances use energy Efficiency can be calculated Energy is source from renewable and non-renewable resources Food is a store of chemical energy that can be used to help us perform many functions Appliances have power which can be calculated 	
Assessment	The assessment will assess the following topics and students need to revise at least 2 weeks in advance: • Working scientifically • Forces 1 (gravity and speed) • Acids and alkalis • Energy 1	
Personal Development opportunities	You can see the energy associated with food on food labels When you buy an appliance a label should tell you how efficient the appliance is	
Homework requirements	Homework will be set on Google Classroom every week and will take 30 minutes to complete Week 1 – Seneca Week 2 – Lesson tasks Week 3 – Comprehension Week 4 – Revision resource Week 5 – Seneca Week 6 – Revision sheet	

Year 8

Topics	Organisms 2 (drugs)		Earth 2 (global warming)
Prior knowledge / skills	 Gases that we breathe in and out Examples of drugs that are good or bad Where oxygen goes in our bodies Some drugs are used for medicine others for fun (recreation) 		 The earth is getting hotter caused by global warming Carbon dioxide concentration contributes to global warming
Key concepts / knowledge / skills covered this half term	 Journey of oxygen and carbon dioxide through the body How gas exchange happens The structure of the respiratory system How breathing happens Examples of medicinal, recreational and illegal drugs The short term and long term effects of alcohol Effects of smoking on the lungs 		 The process of global warming caused by greenhouse gases How carbon is cycled via the process of photosynthesis, respiration and combustion Stores of carbon (e.g. oceans, sedimentary rock, trees, fossil fuels) How metals are extracted from ores in the ground Reduction process to extract metals How aluminium is recycled
Assessment	The assessment will assess the following topics & students need to revise at least 2 weeks in advance: • Working scientifically • Forces 2 (motion and pressure) • Matter 2 (periodic table) • Organisms 2 (drugs)		
Personal Development opportunities	Effect of addiction in our society, debating legalising cannabis, health effects of drugs		
Homework requirements	Homework will be set on Google Classroom every week and will take 30 minutes to complete		
	Homework task	Description / links	
	1. Seneca	Seneca tasks on Motion and pressure	
	2. Lesson tasks	 https://classroom.thenational.ac Complete the lesson on Gro Watch video Make notes Complete the quiz Show your quiz score 	

3. Comprehension	 Complete comprehension task Read the story about the immune system Answer the questions about what you read
4. Revision resource	Create revision resource: Mind map Flash cards Self quizzing
5. Seneca	Set seneca tasks on organisms 1
6. Revision sheet	Make notes at least A4 sheet of knowledge about these topics: Group 1 elements Group 7 elements Group 0 elements

Year 9

Topics	Electricity		Homeostasis	
Prior knowledge / skills	 Batteries power circuits Switches can make circuits turn off or on Electromagnets Electrolysis 		 Your nervous system is made of nerve cells Your 5 senses 	
Key concepts / knowledge / skills covered this half term	 Recalling the circuits symbols Constructing electric circuits Differences between series & parallel Potential difference, current & resistance characteristics in a circuit Alternating & direct current Resistance of a wire & length 		 Knowing that your body controls water, glucose & temperature Journey of an impulse Reflex action Investigating reaction time Explaining the control of blood glucose concentration Describing diabetes Menstrual cycle basics 	
Assessment	The assessment will assess the following topics, and students need to revise at least 2 weeks in advance: • Working scientifically • Chemical changes • Separating mixtures • Electricity			
Personal Development opportunities	Role of obesity on diabetes and health Things that affect reaction time (drugs / alcohol link to Year 8			
Homework requirements	Homework will be set on Google Classroom every week and will take 30 minutes to complete.			
	Homework task Description / links			
	1. Seneca	Set Seneca tasks on the chem	nical changes unit	
	2. Revision clock sheet	eet Students to complete mind map activity on chemical changes topic – to be uploaded to Google Classroom		
	3. Revision resource	Create revision resource in pre flash cards mind map self quizzing	eparation for the end of term test:	

	4. Revision / retrieval	Students to complete retrieval clock on current unit. Break down into any 12 subcategories to fill in the clock. To be uploaded to Google Classroom – please make a copy of this doc (Retrieval Clock.pptx)
	5. Seneca	Seneca task on separating techniques
	6. Seneca	Seneca task on genes