Year 9 Summer Support 2020-21

Combined Science

Advice and support for all Year 9 students Regular independent study will aid the recall of knowledge and enhance your skills to ensure targets are met next year	Tick when complete
• Complete weekly Seneca learning activities – These are designed to keep you thinking about all topics	
• Print off revision checklists/PLCs – These summarise everything you need to learn	
• Use GCSE Pod - Listen to the podcasts and complete the attached quizzes	
• Download and practice past papers from the AQA website or mathsandphysicstutor.com	
• Complete exam questions in timed conditions at home	
• Write a list of your strengths and weaknesses	
• Create a revision timetable that includes all units covered, ensure you allocate extra time for the areas you have identified as a weakness	
• Use your exercise books and revision guide or the knowledge organisers to revise all units	

Internet websites and apps for study support

- **Gcse pod**
- **Seneca learning**
- **Mathsandphysicstutor.co.uk**
- **Savemyexam.co.uk**

Study areas to practise or complete	Where to find the information to revise	Tick when complete
Biology		
- Describe the structure of the human heart	Notes Quiz	
- Explain how the heart moves blood around the body (inc role and position of the aorta, vena cava, pulmonary artery & vein and coronary arteries)	Video Quiz	
- Describe the processes that happen during the cell cycle, including mitosis. Describe where mitosis occurs)	Notes Video Quiz	
Chemistry		
- Describe the structure of ionic compounds, including the electrostatic forces of attraction, and represent ionic compounds using dot and cross diagrams	Notes: Video: Quiz	
- Calculate the relative atomic mass of an element given the percentage abundance of its isotopes	Notes Video	
Physics		
- Define the term 'specific heat capacity'	Notes Video Quiz	
- Calculate the amount of energy stored in or released from a system as its temperature changes by applying, but not recalling, the equation: ***[ΔE = mcΔθ]***		
- Calculate the specific latent heat of fusion/vaporisation by applying, but not recalling, the equation: ***[E = mL]***	Notes Video Quiz	

Key skills to practise	Where to find support on how to practise	Tick when complete
Ensure you know how to convert units of measurement	Notes and practice	
Ensure you can represent numbers to given number of significant figures	Notes and practice	
Use command words appropriately	AQA	
Use evidence to make evaluations.	Video	