



# Year 10 Summer Support 2020-21

## Combined Science

**Advice and support for all Year 10 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 Tassamai weekly to practice areas that you struggle with
- Use GCSE Pod - Listen to the podcasts and complete the attached quizzes
- Download and practice past papers from the AQA website or [mathsandphysicstutor.com](http://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

- Tassamai
- Gcse pod
- Seneca learning
- Mathsandphysicstutor.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
- Describe the structure of the lungs (inc how lungs are adapted for gaseous exchange)
- Explain how the heart moves blood around the body (inc role and position of the aorta, vena cava, pulmonary artery & vein and coronary arteries)
- Describe the structure and function of arteries, veins and capillaries
- Describe what happens in coronary heart disease and what statins are used for

[Notes](#)  
[Notes](#)  
[Quiz](#)  
[Video](#)  
[Quiz](#)  
[Video](#)  
[Video](#)

#### Chemistry

- Describe the structure of ionic compounds, including the electrostatic forces of attraction, and represent ionic compounds using dot and cross diagrams
- Describe covalent bonds and identify different types of covalently bonded substances, such as small molecules, large molecules and substances with giant covalent structures

[Notes:](#)  
[Video:](#)  
[Quiz](#)  
[Notes](#)  
[Quiz](#)

- State that mass is conserved and explain why, including describing balanced equations in terms of conservation of mass	<a href="#">Notes</a> <a href="#">Video</a> <a href="#">Quiz</a>	
- Describe how metals react with oxygen and state the compound they form, define oxidation and reduction	<a href="#">Quiz 2</a>	
<b>Physics</b>		
- Define the term 'specific heat capacity'	<a href="#">Notes</a>	
- Calculate the amount of energy stored in or released from a system as its temperature changes by applying, but not recalling, the equation: $[\Delta E = mc\Delta\theta]$	<a href="#">Video</a> <a href="#">Quiz</a>	
- Calculate the specific latent heat of fusion/vaporisation by applying, but not recalling, the equation: $[E = mL]$	<a href="#">Notes</a> <a href="#">Video</a> <a href="#">Quiz</a>	
<b>Key skills to practise</b>	<b>Where to find support on how to practise</b>	<b>Tick when complete</b>
Ensure you know how to convert units of measurement	<a href="#">Notes and practice</a>	
Ensure you can represent numbers to given number of significant figures	<a href="#">Notes and practice</a>	
Use command words appropriately	<a href="#">AQA</a>	
Use evidence to make evaluations.	<a href="#">Video</a>	