

Week Start	Content Description	Assessment	Events
<b>September</b>			
3rd	<p><b>1. Classification:</b></p> <p>1.1 Characteristics of Living Organisms</p> <p>1.2 Concept and uses of classification systems:</p> <ul style="list-style-type: none"> <li>State that organisms can be classified into groups by the features that they share</li> </ul>	Past paper GCSE pod Flashcards questions	
10 <sup>th</sup>	<p>1.3 Features of organisms:</p> <ul style="list-style-type: none"> <li>State the main features used to place animals and plants into the appropriate kingdoms</li> </ul>	End of topic questions Quizzes on keys	10-14 <sup>th</sup> CEM Assessments (7,9 & 11) 14 <sup>th</sup> Target Grades Deadline (8,10, 12) 14 <sup>th</sup> Year 7 Picnic
17 <sup>th</sup>	<p>1.3 Features of organisms:</p> <ul style="list-style-type: none"> <li>State the main features used to place animals and plants into the appropriate kingdoms.</li> </ul>	Classification End of topic exam	17-20 <sup>th</sup> CEM Assessments (7,9 & 11)
24 <sup>th</sup>	<p><b>2. Cells:</b></p> <p>2.1 Animal and plant cells.</p> <ul style="list-style-type: none"> <li>Describe and compare the structure of a plant cell with an animal cell</li> </ul>	Classified paper quiz Oral questioning	28 <sup>th</sup> Prophet's Birthday - Observed
<b>October</b>			
1st	<p>2.4 size of specimen</p> <ul style="list-style-type: none"> <li>State and use the formula: magnification = image size ÷ actual size</li> <li>Calculate magnification and size of biological specimens using millimeters as units</li> </ul>	Practical assessment on cells End of topic test Flashcards questions	4 <sup>th</sup> Swimming Gala 5 <sup>th</sup> Armed Forces Day
8 <sup>th</sup>	<p><b>3. Movement in and out of cells:</b></p> <p>3.1 diffusion</p>	Past paper 6 Oral questions GCSE pod	8 <sup>th</sup> Target Grade

	<ul style="list-style-type: none"> <li>Describe diffusion as the net movement of particles from a region of their higher concentration to a region of their lower concentration</li> </ul> <p>3.2 Osmosis</p> <ul style="list-style-type: none"> <li>Describe the role of water as a solvent in organisms with reference to digestion, excretion and transport</li> </ul>		Deadline (7,9,11) 10 <sup>th</sup> Careers Day
15 <sup>th</sup>	<p>3.2 Osmosis</p> <ul style="list-style-type: none"> <li>Investigate osmosis using materials such as dialysis tubing.</li> </ul> <p>3.3 Active transport</p> <ul style="list-style-type: none"> <li>Describe active transport as the movement of particles through a cell membrane from a region of lower concentration to a region of higher concentration.</li> </ul>	Oral questioning on types of movement of ions. Movement in and out End of topic Exam	
22 <sup>nd</sup>	Half Term Break		
29 <sup>th</sup>	<p><b>4. Biological molecules:</b></p> <p>4.1 Carbohydrates, fats, and protein (2)</p> <ul style="list-style-type: none"> <li>List the chemical elements that make up: carbohydrates, fats, and proteins.</li> <li>Describe the structure of a DNA molecule</li> </ul>	Written quiz at the end of the lesson Biological molecules End of topic test	31 <sup>st</sup> Orange and Black Day
<b>November</b>			
5 <sup>th</sup>	<p><b>5. Enzymes</b></p> <p>5.1 Enzymes</p> <ul style="list-style-type: none"> <li>Describe a catalyst as a substance that increases the rate of a chemical reaction and is not changed by the reaction</li> </ul>	GCSE pod Past paper questions	
12 <sup>th</sup>	<ul style="list-style-type: none"> <li>Explain enzyme action with reference to active site, enzyme-substrate complex, substrate, and product</li> </ul>	Enzymes End of topic test. Flashcards questions	
19 <sup>th</sup>	<p><b>6.Plant Nutrition</b></p> <p>6.1 photosynthesis</p>	Questions on the digestive model	AP1 Written Comments Deadline

	<ul style="list-style-type: none"> <li>Describe photosynthesis as the process by which plants synthesize carbohydrates from raw materials using energy from light</li> </ul>		
26 <sup>th</sup>	6.2 leaf structure <ul style="list-style-type: none"> <li>Identify in diagrams and images the following structures in the leaf of a dicotyledonous plant:</li> </ul>	Classified Paper 6 Revision on GCSE pod	
<b>December</b>			
3 <sup>rd</sup>	Revision		4 <sup>th</sup> First Day AP1 Exams
10 <sup>th</sup>	<ul style="list-style-type: none"> <li>Identify and explain the limiting factors of photosynthesis in different environmental conditions</li> </ul>	Plant nutrition end of topic exam	15 <sup>th</sup> Last Day AP1 Exams
17 <sup>th</sup>	<b>7. Human nutrition</b> 7.1 diet <ul style="list-style-type: none"> <li>Describe what is meant by a balanced diet.</li> <li>State the causes of scurvy and rickets.</li> </ul> 7.2 The human digestive system <ul style="list-style-type: none"> <li>Identify in diagrams and images the main organs of the digestive system.</li> </ul>	Practical assessment on leaves GCSE pod	22 <sup>nd</sup> Winter Break
25 <sup>th</sup>	Winter Break		
<b>January</b>			
1 <sup>st</sup>	Winter Break		
7 <sup>th</sup>	7.3 Physical digestion <ul style="list-style-type: none"> <li>Describe physical digestion as the breakdown of food into smaller pieces without chemical change to the food molecules.</li> </ul> 7.4 chemical absorption <ul style="list-style-type: none"> <li>Describe chemical digestion as the breakdown of large insoluble molecules into small soluble molecules</li> </ul>	Human nutrition end of topic test Flashcards questions	8 <sup>th</sup> First Day

14 <sup>th</sup>	<p>7.7 Absorption</p> <ul style="list-style-type: none"> <li>State that the small intestine is the region where nutrients are absorbed.</li> <li>State that most water is absorbed from the small intestine but that some is also absorbed from the colon.</li> </ul>	<p>GCSE pod Past paper quiz Animal nutrition end of topic exam</p>	
21 <sup>st</sup>	<p><b>8. Transport in plants</b></p> <p>8.1 Xylem and Phloem</p> <ul style="list-style-type: none"> <li>State the functions of xylem and phloem: (a) xylem – transport of water and mineral ions, and support (b) phloem – transport of sucrose and amino acids.</li> </ul> <p>8.2 Transport of water</p> <ul style="list-style-type: none"> <li>Identify in diagrams and images root hair cells and state their functions.</li> <li>State that the large surface area of root hairs increases the uptake of water and mineral ions</li> </ul>	GCSE pod	25 <sup>th</sup> National Holiday
28 <sup>th</sup>	<p>8.3 Transpiration</p> <ul style="list-style-type: none"> <li>Describe transpiration as the loss of water vapour from leaves.</li> </ul>	<p>Questions on the heart model Transport in plant EOT</p>	
<b>February</b>			
4 <sup>th</sup>	<p><b>9. Transport in animals</b></p> <p>9.1 Circulatory system</p> <ul style="list-style-type: none"> <li>Describe the circulatory system as a system of blood vessels with a pump and valves to ensure one-way flow of blood</li> </ul> <p>9.2 The heart</p> <ul style="list-style-type: none"> <li>Identify in diagrams and images the structures of the mammalian heart, limited to muscular wall, septum, left and right ventricles, left and right</li> </ul>	Flashcards questions	

	atria, one-way valves and coronary arteries		
11 <sup>th</sup>	<p>9.3 Blood vessels</p> <ul style="list-style-type: none"> <li>Describe the structure of arteries, veins and capillaries, limited to: relative thickness of wall, diameter of the lumen and the presence of valves in veins</li> </ul> <p>9.4 Blood</p> <ul style="list-style-type: none"> <li>List the components of blood as: red blood cells, white blood cells, platelets and plasma</li> </ul>	Past paper Oral questions	
18 <sup>th</sup>	<ul style="list-style-type: none"> <li>State the roles of blood clotting as preventing blood loss and the entry of pathogens.</li> </ul>	Transport in animal end of topic test	21-22 <sup>nd</sup> Half Term
25 <sup>th</sup>	<p><b>10. Disease and immunity</b></p> <p>10.1 Disease and immunity</p> <ul style="list-style-type: none"> <li>Describe a pathogen as a disease-causing organism.</li> <li>Describe active immunity as defence against a pathogen by antibody production in the body</li> </ul>	Questions on the lungs model Past paper	
<b>March (10<sup>th</sup> Ramadan Starts)</b>			
3 <sup>rd</sup>	<p><b>11. Respiration</b></p> <p>11.1 Gas exchange</p> <ul style="list-style-type: none"> <li>Describe the features of gas exchange surfaces in humans, limited to: large surface area, thin surface, good blood supply and good ventilation with air</li> </ul>	Disease and immunity end of topic test Flashcards questions	
10 <sup>th</sup>	<p>11.2 Respiration</p> <ul style="list-style-type: none"> <li>State the uses of energy in living organisms, including muscle contraction, protein synthesis, cell division, active transport, growth, the passage of nerve impulses and the maintenance of a constant body temperature</li> </ul>	GCSE pod Past paper	
17 <sup>th</sup>	<b>12. Coordination and Response</b>	GCSE pod	

	<p>12.1 Coordination and response</p> <ul style="list-style-type: none"> <li>State that electrical impulses travel along neurones</li> </ul>	<p>Past paper quiz Respiration end of topic test</p>	
24 <sup>th</sup>	<p>12.2 sense organs</p> <ul style="list-style-type: none"> <li>Describe sense organs as groups of receptor cells responding to specific stimuli: light, sound, touch, temperature and chemicals</li> </ul> <p>12.3 Hormones</p> <ul style="list-style-type: none"> <li>Describe a hormone as a chemical substance, produced by a gland and carried by the blood, which alters the activity of one or more specific target organs</li> </ul>		
<b>April</b>			
31 <sup>st</sup>	12.4 Coordination in plants (2)		
7 <sup>th</sup>		<p>GCSE pod Past paper quiz Coordination and response end of topic test</p>	10-11 <sup>th</sup> Eid Holiday
14 <sup>th</sup>	<p><b><u>13. Excretion and homeostasis</u></b></p> <p>13.1 Excretion</p> <ul style="list-style-type: none"> <li>State that carbon dioxide is excreted through the lungs</li> <li>State that the kidneys excrete urea and excess water and ions</li> </ul>	Flashcards questions	
21 <sup>st</sup>	<p>13.2 Homeostasis</p> <ul style="list-style-type: none"> <li>Describe a hormone as a chemical substance, produced by a gland and carried by the blood, which alters the activity of one or more specific target organs</li> </ul>	<p>GCSE pod Past paper quiz Excretion end of topic test</p>	25 <sup>th</sup> Spring Break
28 <sup>th</sup>	Spring Break		
<b>May</b>			
5 <sup>th</sup>	End of year Revision on paper 2,4,6 chapters 1,2,3,4.	<p>Past papers Oral questioning</p>	7 <sup>th</sup> Start of Term 3
12 <sup>th</sup>	End of year Revision on paper 2,4,6 chapters 5,6,7,8.	<p>Past papers Oral questioning</p>	
19 <sup>th</sup>	End of year Revision on paper 2,4,6 chapters 9,10,11.	<p>Past papers Oral questioning</p>	

26 <sup>th</sup>	End of year Revision on paper 2,4,6 chapters 12,13.	Past papers Oral questioning	
June			
2 <sup>nd</sup>	End of year practice exam	Past paper questions	6 <sup>th</sup> End of year assembly
9 <sup>th</sup>	En of year activities		12 <sup>th</sup> Last day for Students 13 <sup>th</sup> Last day for Teachers
End of Year			
<b><u>Additional Notes:</u></b>			