LONG TERM PLAN 2023/2024

YEAR GROUP: 10 SUBJECT: Biology IGCSE

Week Start	Content Description	Assessment	Events
September			
3rd	**Coordination and response** • Define a hormone as a chemical substance, produced by a gland, carried by the blood, which alters the activity of one or more specific target organs and is then destroyed by the liver • State the role of the hormone adrenaline in boosting the blood glucose concentration and give examples of situations in which this may occur	HW p. 176 11.2 and 11.3 Activities Summative assessment: End of topic test	
10th	**Reproduction in plants** • Define mitosis as cell division giving rise to genetically identical cells in which the chromosome number is maintained and state the role of mitosis in growth, repair of damaged tissues, replacement of worn out cells and asexual reproduction • Define asexual reproduction as the process resulting in the production of genetically identical offspring from one parent and describe one named, commercially important application of asexual reproduction in plants	Formative assessment p. 198 #16.1 – 16.3 Classified past papers	10-14th CEM Assessments (7,9 & 11) 14th Target Grades Deadline (8,10, 12) 14th Year 7 Picnic
17th	**Reproduction in humans** • Identify on diagrams of the male reproductive system and state the functions of the testes, scrotum, sperm ducts, prostate gland, urethra and penis	Formative assessment p. 213 #17.1 -17.7	17-20th CEM Assessments (7,9 & 11)

24th	**Reproduction in humans** • Identify on diagrams of the female reproductive system and state the functions of the ovaries, oviducts, uterus, cervix and vagina	Formative assessment p. 227	28th Prophet's Birthday -Observed
October			
1st	**Inheritance** • Describe the difference between continuous and discontinuous variation and give examples of each • State that a chromosome includes a long molecule of DNA	Formative assessment: 18.1-18.7	4th Swimming Gala 5th Armed Forces Day
8th	**Inheritance** • Describe the determination of sex in humans (XX and XY chromosomes) • Describe variation and state that competition leads to differential survival of organisms, and reproduction by those organisms best fitted to the environment • Assess the importance of natural selection as a possible mechanism for evolution	Practicing pedigree questions Questions 18.8-18.12	8th Target Grade Deadline (7,9,11) 10th Careers Day
15th	**Inheritance** • Explain that the gene that controls the production of human insulin can be inserted into bacterial DNA • Understand that such genetically engineered bacteria can be used to produce	End of topic questions p. 245 End of topic test.	
22nd	Half Term Break		
29th	**Variation and Natural selection** • Describe the development of strains of antibiotic-resistant bacteria, including	End of topic questions p. 245 End of topic test.	31st Orange and Black Day

	MRSA, as an example of natural selection 4 Describe artificial selection (selective breeding) with reference to: (a) selection by humans of animals or plants with desirable features (b) crossing these to produce the next generation		
November			
5th	**Organisms and their environment** • Understand that the Sun is the principal source of energy input to most biological systems • Explain why most forms of life are completely dependent on photosynthesis • Describe the flow of energy through food chains and webs including energy from light and energy in living organisms and its eventual transfer to the environment	Quizzes Classified past papers HW p286	
12th	**Organisms and their environment** • Explain why the transfer of energy from one trophic level to another is inefficient • Explain why food chains usually have fewer than five trophic levels • Explain why it is more energy efficient for humans to eat crop plants than to eat livestock that have been fed on crop plants	End of topic questions p. 300 End of topic test.	
19th	Biotechnology	Classified past papers End of topic test.	AP1 Written Comments Deadline
26th	Biotechnology	Classified past papers End of topic test.	
December			

3rd	AP1 Exams		4th First Day AP1 Exams
10th	AP1 Exams		15th Last Day AP1 Exams
17th	AP1 Exams		22nd Winter Break
25th	Winter Break		
January			
1st	Winter Break		
7th	Chapter 1-5 revision	Solving classified past papers with feedback	8th First Day
14th	Chapter 6-10 revision	Solving classified past papers with feedback	
21st	Chapter 11-15 revision	Solving classified past papers with feedback	25th National Holiday
28th	Chapter 16-20 revision	Solving classified past papers with feedback	
February			
4th	Chapter 21 revision	Solving classified past papers with feedback	
11th	Revision on paper 6	Solving classified past papers with feedback	
18th	Revision on paper 6	Solving classified past papers with feedback	21-22nd Half Term
25th	Revision on paper 4	Solving classified past papers with feedback	
March (10th Ramadan Starts)			
3rd	Revision on paper 2	Solving paper 2 past papers	
10th	Revision on paper 4	Solving paper 4 past papers	
17th	Revision on paper 6	Solving paper 6 past papers	
24th	Revision on paper 4	Solving paper 4 past papers	

April			
31st	Revision on paper 6	Solving paper 6	
7th	Revision on paper 2	Solving paper 2 past papers	10-11th Eid Holiday
14th	Revision on paper 4	Solving paper 4 past papers	
21st	Revision on paper 6	Solving paper 6	25th Spring Break
28th	Spring Break		
May			
5th	IGCSE Exams		7th Start of Term 2
12th	IGCSE Exams		
19th	IGCSE Exams		
26th	IGCSE Exams		
June			
2nd	IGCSE Exams		6th End of year assembly
9th	IGCSE Exams		12th Last day for Students 13th Last day for Teachers
End of Year			
Additional Notes:			