

## Y13 Biology LTP 2017-2018

	Tracking and Key Dates	NAT (5)	BSP (4)
04-Sep	Inset Mon&Tues	<b>5.2.1 Photosynthesis</b> 1. Photosynthesis	<b>5.1.1 Communication and Homeostasis</b> 1. Communication
11-Sep	Data Collection Opens	2. The chloroplast and photosynthetic pigments 3. Thin Layer Chromatography <b>PAG 6.3</b>	2. Homeostasis 3. Controlling body temperature
18-Sep	21st Open Evening CRD Deadline	4. Light dependent Stage 5. Light independent stage	<b>PAG 11.2</b> <b>5.1.2 Excretion</b> 1. Excretion
25-Sep	<b>Testing Week</b>	<b>Assessment</b>	2. The Liver 3. Function of the liver
02-Oct	Appraisal deadline	<b>Feedback</b> 6. Limiting Factors 7. Rates Practicals <b>PAG 12.3</b>	4. The kidney 5. Formation of urine
09-Oct	Data Collection Closes	<b>5.2.2 Respiration</b> 1. Respiration 2. Glycolysis	6. Water reabsorption 7. Osmoregulation



16-Oct		3. Mitochondria 4. Link reaction and Krebs cycle 5. Oxidative Phosphorylation & chemiosmosis	8. Kidney failure 9. Using urine for medical diagnosis
23-Oct	AUTUMN HALF TERM		
30-Oct	Inset Mon	6. Anaerobic Respiration 7. Respiratory Substrates	<b>5.1.3 Neuronal communication</b> 1. Sensory Receptors & neurone structure
06-Nov	Data Collection Opens	8. Practical work <b>5.1.5 Plant and animal responses</b> 3. Organisation of the nervous system 4. The Brain	2. Resting and action potentials 3. Transmission of action potentials
13-Nov		5. Reflex actions 6. Coordination of response by nervous and endocrine system	4. Synapses
20-Nov	Observation Week	7. Control of heart rate <b><u>PAG11.1</u></b>	<b>5.1.4 Hormonal communication</b> 1. The Endocrine System 2. Adrenal Glands
27-Nov	Testing Week	<b>Assessment Feedback</b>	3. The Pancreas 4. Blood glucose regulation
04-Dec	Data Collection Closes (Y11)	8. Types of muscles <b><u>PAG 2.3</u></b> 9. Sliding Filament Model	5. Diabetes



11-Dec	Data Collection Closes	<b>6.1.3 Manipulating Genomes</b> 1. PCR 2. Electrophoresis	<b>5.1.5 Plant and animal responses</b> 1. Types of plant response 2. Roles of plant hormones
18-Dec	School Finishes 19th Dec		
25-Dec	CHRISTMAS		
01-Jan	School Resumes 3rd Jan	<b>Year 12-13 Mock</b>	
08-Jan	Year 10 Work Experience	<i>Feedback</i>	<b>6.1.1 Cellular Control</b> 1. Mutation 2. Regulation of gene expression
15-Jan	Work Scrutiny Week	<b><u>PAG 6.2</u></b> 3. DNA profiling 4. DNA sequencing	3. Control of body plans 4. Apoptosis and development of body form
22-Jan	Data Collection Closes (Y12&13)	5. Using the genome 6. Genetic Engineering principles	<b>6.1.2 Patterns of inheritance</b> 1. Variation and gene expression 2. Monohybrid inheritance
29-Jan	Data Collection Closes	7. Genetic Engineering Techniques <b><u>PAG 7.3</u></b>	3. Multiple alleles & co-dominance 4 Linkage
05-Feb		8. Ethics of GM 9. Gene Therapy	5. Dihybrid inheritance 6. Epistasis



12-Feb	SPRING HALF TERM		
19-Feb		<b>6.2.1 Cloning and biotechnology</b> 1. Cloning in plants 2. Cloning in animals	7. Chi-squared 8. Factors affecting evolution
26-Feb	Observation Week Data collection Opens	3. Uses of micorganisms in biotechnology <b><u>PAG10.3</u></b>	9. Hardy Weinberg
05-Mar		<b>MOCKS 11-13</b>	
12-Mar			
19-Mar	Data collection Yr11-13	<b>Feedback</b>	<b>Feedback</b>
26-Mar	Data Collection Closes Yr 7-10 School Finishes 29th Mar	4. Fermenters 5. Microbial growth	10. Isolating mechanisms 11. Artificial Selection
02-Apr	EASTER		
09-Apr			



16-Apr		<u>PAG7.2 or 10.2</u> 6. Aseptic Techniques <u>PAG 7.1</u>	<u>Mop up PAGs</u>
23-Apr	Data Collection Opens	7. Immobilised Enzymes	
30-Apr			
07-May			
14-May	Data Collection Closes		
21-May		<b>Study leave</b>	
28-May	SUMMER HALF TERM		
04-Jun		<b>7th June Paper 1 Biological Processes AM</b>	



11-Jun		<b>11th June Paper 2 Biological Diversity PM</b>	
18-Jun		<b>18th June Paper 2 Unified Biology AM</b>	
25-Jun			
02-Jul			
09-Jul			
16-Jul	School Finishes 20th July		