

## Curriculum Recovery Brief Outline

Half-term (or specific weeks)	Programme of Learning Title	Catch Up Elements	Assessments	Remote Contingency
<b>Autumn 1</b>	7A – cells, tissues, organs and systems - life processes - organs - tissues - cells - organ systems		Microscopes CPR task	Wk 3 PET – life processes Wk 6 RLO - cells Wk 9 ELR – organs & organ systems
<b>Autumn 2</b>	7B – sexual reproduction in animals and plants - animal sexual reproduction - Plant sexual reproduction - fertilisation and dispersal - reproductive organs		7A end of unit test	Wk 11 PET – reproductive organs Wk 14 RLO - fertilisation Ext? - ELR - a/p sexual reproduction
<b>Spring 1</b>	- becoming pregnant - gestation and birth - growing up		Fertilisation CPR task 7B end of unit test	PET – growing up RLO – becoming pregnant ELR - growing up
<b>Spring 2</b>	7C – muscles and bones - the skeleton - muscles and moving - drugs		7C end of unit test	PET – the skeleton RLO - drugs ELR - muscles
<b>Summer 1</b>	7D – ecosystems - variation - adaptations - effects of the environment		Year 7 end of year exam	PET – effects of the environment 1 RLO - adaptations ELR - variation

<b>Summer 2</b>	<ul style="list-style-type: none"><li>- effects on the environment 2</li><li>- transfers in food chains</li><li>- photosynthesis</li></ul>		Photosynthesis CPR task 7D end of unit test	PET – effects on the environment 2 RLO - photosynthesis ELR - food chains/webs
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<b>Autumn 1</b>	<b>7D – ecosystems</b> <ul style="list-style-type: none"> <li>- variation</li> <li>- adaptations</li> <li>- effects of the environment</li> <li>- effects on the environment</li> <li>- transfers in food chains</li> <li>- photosynthesis</li> </ul>	Whole topic 7D from year 7	Photosynthesis CPR task	Wk 5 PET - photosynthesis Wk 8 RLO – adaptations Ext? ELR - food chains/webs
<b>Autumn 2</b>	<b>8A – Food and digestion</b> <ul style="list-style-type: none"> <li>- nutrients</li> <li>- balanced diets</li> <li>- Food labels and advertising</li> </ul>		7D end of topic test	Wk 11 PET - nutrients Wk 14 RLO – balanced diets Ext - ELR - food labels & adverts
<b>Spring 1</b>	<ul style="list-style-type: none"> <li>- digestion</li> <li>- absorption</li> </ul> <b>8C – Breathing and respiration</b> <ul style="list-style-type: none"> <li>- gas exchange system</li> <li>- getting oxygen</li> <li>- comparing gas exchange</li> <li>- anaerobic respiration</li> </ul>		Enzymes CPR task  8A end of topic test	PET – anaerobic respiration RLO – digestion/absorption ELR - getting oxygen

<b>Spring 2</b>	<b>9A - Genetics and evolution</b> <ul style="list-style-type: none"> <li>- unicellular or multicellular</li> <li>- classification and biodiversity</li> <li>- DNA</li> <li>- genes and extinction</li> </ul>		8C end of topic test	PET - DNA RLO – genes/extinction ELR - classification & biodiversity
<b>Summer 1</b>	<b>9D – Health and Disease</b> <ul style="list-style-type: none"> <li>- Diseases</li> <li>- More on diseases</li> <li>- Control systems</li> </ul>		9A end of topic test	PET – more on diseases RLO - Diseases ELR - control systems
<b>Summer 2</b>	<ul style="list-style-type: none"> <li>- Testing medicines</li> <li>- Combatting pandemics</li> <li>- Exam prep</li> </ul>		Year 8 end of year exam  9D end of topic test	PET – exam prep RLO – Testing medicines ELR -

## Curriculum Intent:

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Autumn 1	<p><b>9A - Genetics and evolution</b></p> <ul style="list-style-type: none"> <li>- unicellular or multicellular</li> <li>- classification and biodiversity</li> <li>- DNA</li> <li>- genes and extinction</li> </ul> <p><b>9D – Health and Disease</b></p> <ul style="list-style-type: none"> <li>- Diseases</li> <li>- Control systems</li> <li>- Testing medicines</li> <li>- Combatting pandemics</li> </ul>	Topics 9A and 9D from year 8	Immune System CPR activity	<p>Wk 4 PET - DNA</p> <p>Wk 7 RLO – genes/extinction</p> <p>Ext ELR - classification &amp; biodiversity</p>
Autumn 2	<p><b>B1</b></p> <ul style="list-style-type: none"> <li>- Microscopes</li> <li>- plant and animal cells</li> <li>- specialised cells</li> <li>- inside bacteria</li> </ul>		9A/D end of unit test	<p>Wk 10 PET – inside bacteria</p> <p>Wk 13 RLO - microscopes</p> <p>Wk 16 ELR - cells</p>
Spring 1	<p>B1</p> <ul style="list-style-type: none"> <li>- enzymes and nutrition</li> <li>- enzyme action</li> </ul>		Mock exam	<p>PET – transporting substances</p> <p>RLO - enzymes</p> <p>ELR - food tests</p>

	<ul style="list-style-type: none"> <li>- enzyme activity</li> <li>- transporting substances</li> <li>- Food tests</li> </ul>			
<b>Spring 2</b>	<p><b>B2</b></p> <ul style="list-style-type: none"> <li>- mitosis</li> <li>- growth in animals</li> <li>- growth in plants</li> <li>- stem cells</li> <li>- the nervous system</li> <li>- The eye</li> <li>- The brain</li> <li>- neurotransmitter speeds</li> </ul>		<p>B1 end of unit test</p> <p>Stem cells CPR activity</p>	<p>PET - mitosis</p> <p>RLO – stem cells</p> <p>ELR - nervous system</p>
<b>Summer 1</b>	<p><b>B3</b></p> <ul style="list-style-type: none"> <li>- Sexual &amp; asexual reproduction</li> <li>- Meiosis</li> <li>- DNA</li> <li>- Protein synthesis</li> <li>- Genetic variants and phenotypes</li> </ul>		<p>B2 end of unit test</p>	<p>PET - DNA</p> <p>RLO - meiosis</p> <p>ELR - protein synthesis</p>
<b>Summer 2</b>	<p><b>B3</b></p> <ul style="list-style-type: none"> <li>- Mendel</li> <li>- Alleles</li> <li>- Inheritance</li> <li>- Multiple &amp; missing alleles</li> <li>- Gene mutations</li> <li>- Variation</li> </ul>		<p>Exam Question CPR activity</p>	<p>PET - Alleles</p> <p>RLO - mutations</p> <p>ELR - multiple &amp; missing alleles</p>

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Autumn 1	<p><b>B4</b></p> <ul style="list-style-type: none"> <li>- Human evolution</li> <li>- Darwin's theory</li> <li>- Development of Darwin's theory</li> <li>- Classification</li> <li>- Breeds and varieties</li> </ul>	Continuing from where the class left off	<p>Evolution CPR task</p> <p>Evolution CPR task</p> <p>Tissue culture CPR task</p>	<p>PET – Darwin's Theory</p> <p>RLO – human evolution</p> <p>ELR - breeds &amp; varieties</p> <p>Wk 3</p> <p>Wk 4</p> <p>Wk 5</p> <p>Wk 6</p> <p>Wk 7</p> <p>Wk 8</p> <p>Wk 9</p>
Autumn 2	<p><b>B4</b></p> <ul style="list-style-type: none"> <li>- Tissue culture</li> <li>- Genes in agriculture and medicine</li> <li>- GM and agriculture</li> <li>- Fertilisers and biological control</li> </ul> <p><b>B5</b></p> <ul style="list-style-type: none"> <li>- Health and disease</li> </ul>		<p>B4 end of unit test</p> <p>Selective breeding/genetic engineering EQ</p> <p>Communicable diseases CPR task</p> <p>Non Communicable diseases CPR task</p>	<p>PET – Tissue culture</p> <p>RLO – genetic engineering</p> <p>ELR - fertilisers &amp; bio control</p> <p>Wk 10</p> <p>Wk 11</p> <p>Wk 12</p>

	<ul style="list-style-type: none"> <li>- Non-communicable diseases</li> </ul>			<p>Wk 13</p> <p>Wk 14</p> <p>Wk 15</p> <p>Wk 16</p>
<b>Spring 1</b>	<p><b>B5</b></p> <ul style="list-style-type: none"> <li>- Cardiovascular disease</li> <li>- Pathogens</li> <li>- Spreading pathogens</li> <li>- Virus lifecycles</li> </ul>		<p>Communicable disease CPR task</p> <p>Antibiotic CPR task</p> <p>Monoclonal CPR task</p>	<p>PET - Pathogens</p> <p>RLO – virus life cycles</p> <p>ELR - CV disease</p>
<b>Spring 2</b>	<p><b>B5</b></p> <ul style="list-style-type: none"> <li>- Plant defences</li> <li>- Plant diseases</li> <li>- Physical and chemical defences</li> <li>- The immune system</li> <li>- Antibiotics</li> <li>- Monoclonal antibodies</li> </ul>		<p>Mock exam</p> <p>B5 end of unit test</p>	<p>PET – Plant defences</p> <p>RLO – immune system</p> <p>ELR - antibiotics</p>
<b>Summer 1</b>	<p><b>B6</b></p> <ul style="list-style-type: none"> <li>- Photosynthesis</li> <li>- Factors affecting photosynthesis</li> <li>- Absorbing water and mineral ions</li> <li>- Transpiration and translocation</li> </ul>		<p>Photosynthesis CPR task</p> <p>Photosynthesis CPR task</p> <p>Transport in plants CPR task</p>	<p>PET - Photosynthesis</p> <p>RLO – absorbing water and mineral ions</p> <p>ELR - transpiration &amp; translocation</p>



<b>Summer 2</b>	<b>B6</b> <ul style="list-style-type: none"> <li>- Plant adaptations</li> <li>- Plant hormones</li> <li>- Uses of plant hormones</li> </ul>		B6 end of unit test Plant adaptations CPR task Plant adaptations CPR task Plant hormones CPR task	PET – Plant hormones RLO - plant adaptations ELR -
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Curriculum Planning 2020-2021

Curriculum Area:

Year Group: 11 (triple science in green)

Curriculum Intent:

Half-term (or specific weeks)	Programme of Learning Title	Catch Up Elements	Assessments	Remote Contingency
Autumn 1	<p><b>B7</b></p> <ul style="list-style-type: none"> <li>- Hormones</li> <li>- Hormonal control of metabolic rate</li> <li>- The menstrual cycle</li> <li>- Hormonal control of the menstrual cycle</li> <li>- Control of blood glucose</li> </ul>	Continuing from where the class left off	<p>Menstrual Cycle CPR task</p> <p>Diabetes CPR task</p> <p>Menstrual Cycle CPR task</p>	<p>PET – Control of blood glucose</p> <p>RLO – menstrual cycle/hormones</p> <p>ELR - metabolic rate</p> <p>Wk 3</p> <p>Wk 4</p> <p>Wk 5</p> <p>Wk 6</p> <p>Wk 7</p> <p>Wk 8</p> <p>Wk 9</p>
Autumn 2	<p><b>B7</b></p> <ul style="list-style-type: none"> <li>- Type 2 diabetes</li> <li>- Thermoregulation</li> <li>- Osmoregulation</li> <li>- The kidneys</li> </ul>		<p>Paper 1 mock</p> <p>Diabetes CPR task</p> <p>Kidneys CPR task</p>	<p>PET - Thermoregulation</p> <p>RLO - kidneys</p> <p>ELR - diabetes</p> <p>Wk 10</p> <p>Wk 11</p> <p>Wk 12</p> <p>Wk 13</p>

				Wk 14 Wk 15 Wk 16
<b>Spring 1</b>	<b>B8</b> <ul style="list-style-type: none"> <li>- Efficient transport and exchange</li> <li>- Factors affecting diffusion</li> <li>- The circulatory system</li> <li>- The heart</li> <li>- Cellular respiration</li> </ul>		B7 end of unit test  Circulatory system CPR task Circulatory system CPR task	PET – The heart RLO – cellular respiration ELR - transport & exchange
<b>Spring 2</b>	<b>B9</b> <ul style="list-style-type: none"> <li>- Ecosystems</li> <li>- Energy transfer</li> <li>- Abiotic factors and communities</li> <li>- Biotic factors and communities</li> </ul> Assessing pollution		Paper 2 mock	PET – Energy transfer RLO – assessing pollution ELR - abiotic/biotic communities
<b>Summer 1</b>	<b>B9</b> <ul style="list-style-type: none"> <li>- Parasitism &amp; mutualism</li> <li>- Biodiversity &amp; humans</li> <li>- Preserving biodiversity</li> <li>- Food security</li> <li>- The water cycle</li> <li>- The carbon cycle</li> <li>- The nitrogen cycle</li> <li>- Rates of decomposition</li> </ul>		B9 end of unit test	PET – Nitrogen cycle RLO – carbon cycle ELR - biodiversity

<b>Summer 2</b>	Consolidation activities Core Practical Review			PET – Core prac 1 RLO – Core prac 2 ELR - Core prac 3