

Subject - Year 8



AUTUMN I PRIOR LEARNING Respiratory system and gas exchange Diffusion Summative Assessment 1 Effect of exercise on breathing Lifestyle and COPDs Key Knowledge and skills from a broad range of content from HT1,2, and 3. Mixture of multiple choice, **AUTUMN 2** short answer and extended answer questions. Respiration Photosynthesis Animal and plant cells Investigating yeast and respiration Investigating photosynthesis **SPRING I PRIOR LEARNING** Plant cells Limiting factors of photosynthesis Leaf structure and adaptation Testing leaves for starch SPRING 2 Fertilisation; genes and DNA Summative Assessment 2 DNA structure Continuous and discontinuous variation Inherited and environmental characteristics Darwin and evolution Key Knowledge and skills from a broad range of content from HT1,2,3,4 and 5. Mixture of multiple choice, short answer and extended answer questions. SUMMER I **PRIOR LEARNING** Selective breeding Predator and prey relationships Ecosystems Food chains and food webs Population dynamics SUMMER 2 Biodiversity, deforestation and global warming Ecosystems Investigating ecosystems with quadrats

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Subject - Year 9

AUTUMN I



PRIOR LEARNING

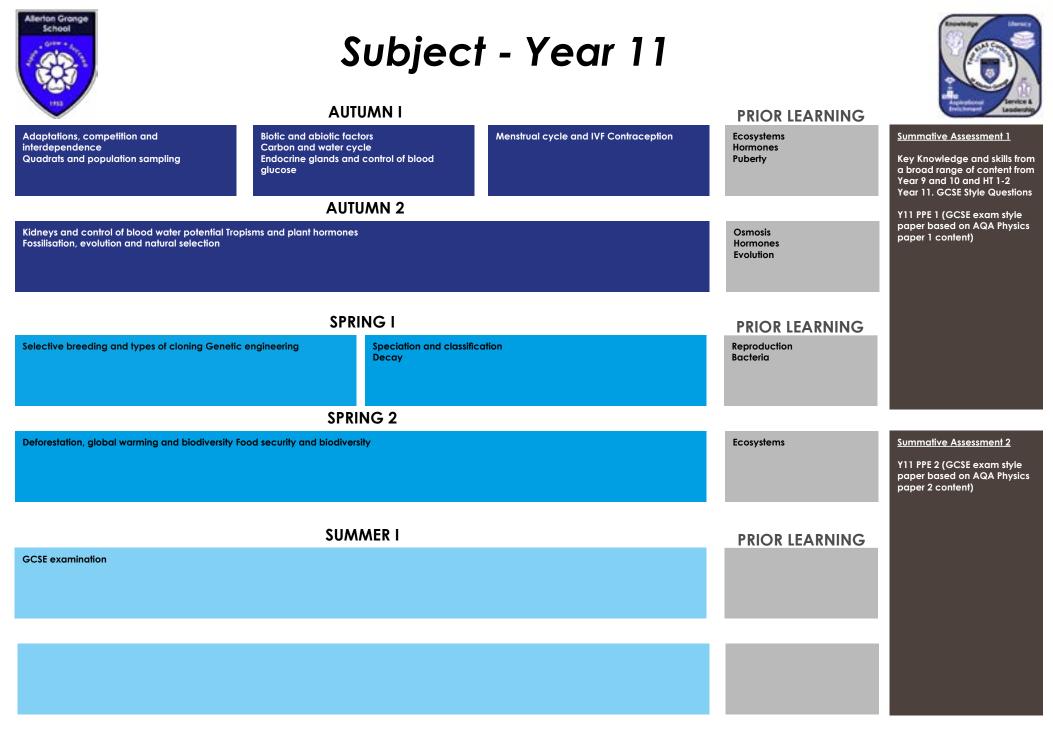
Cell structure; eukaryotic and prokaryotic cells Specialised cells Microscopy Diffusion Osmosis Active Transport	JTUMN 2	Animal and plant cells Specialised cells Simple molecules Specialised cells	Summative Assessment 1 Key Knowledge and skills from a broad range of content from HT1,2, and 3. Mixture of multiple choice, short answer and extended answer questions.
	PRING I	PRIOR LEARNING	
Aerobic respiration Anaerobic respiration	Aerobic respiration Anaerobic respiration	Chemical formula Muscles cells Cell structure	
SI	PRING 2		
Communicable diseases Primary defence against infection	Secondary defence against infection - the immune system Vaccination and herd immunity	White blood cells	Summative Assessment 2 Key Knowledge and skills from a broad range of content from HT1,2,3,4 and 5.
SUMMER I		PRIOR LEARNING	Mixture of multiple choice, short answer and extended answer questions.
Food tests Digestive system How enzymes work		Balanced diet	
SUMMER 2			
Enzymes in digestion Effect of pH and temperature on enzymes		Digestion	



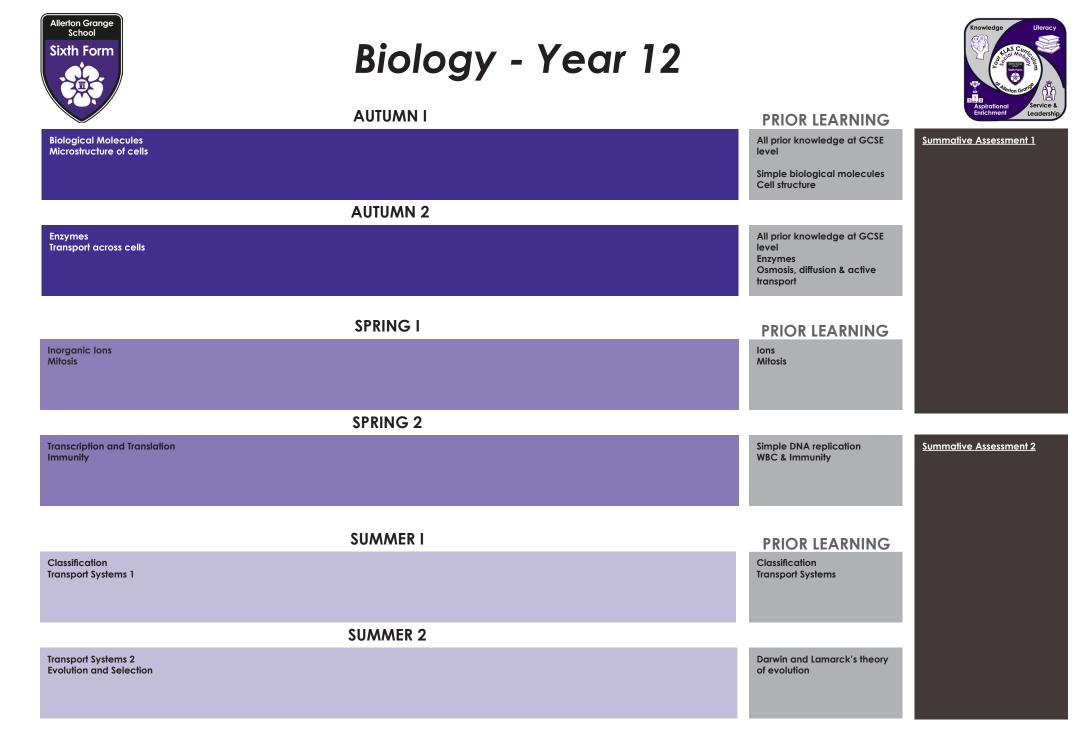
Subject - Year 10

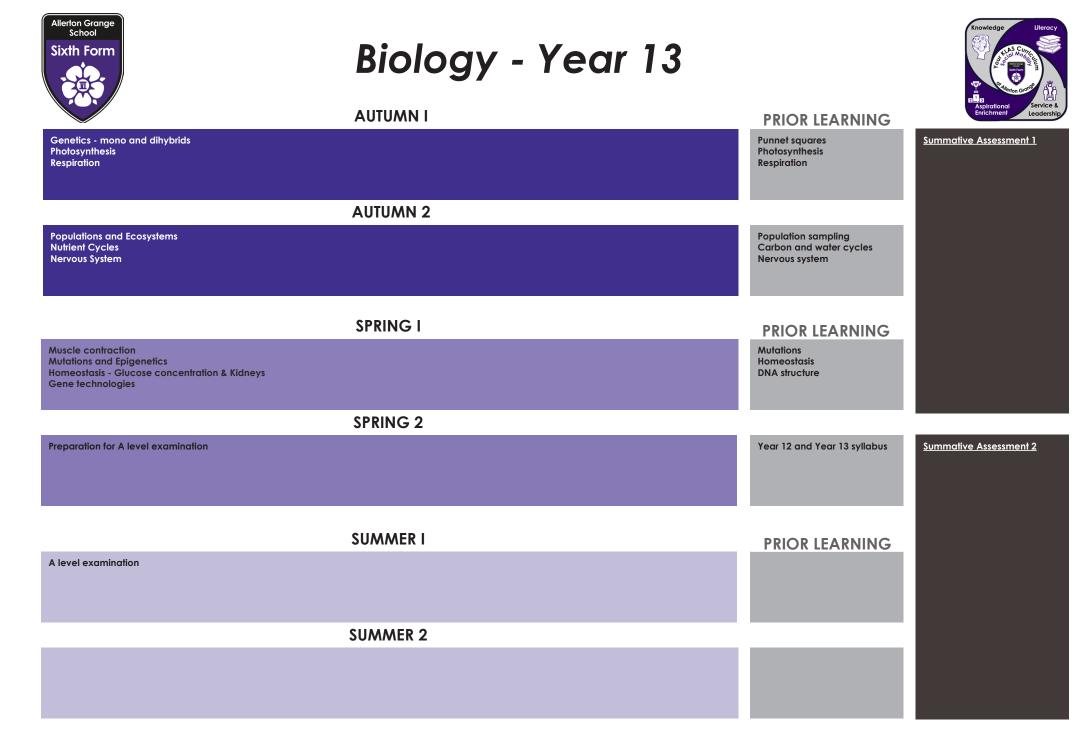


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Photosynthesis Circulatory system	Heart disease and treatment Respiratory system and gas exchange	Cells structure Blood cells Respiratory system	Summative Assessment 1 Key Knowledge and skills from a broad range of content from HT1,2, and 3 plus key Biology principles from 9 (Cell Biolo-
	AUTUMN 2		gy). GCSE Style Questions
Respiration and exercise Leaf structure and gas exchange in plants	Transpiration and translocation Osmosis	s required practical Osmosis Diffusion Respiration	
SPRING I		PRIOR LEARNING	
Mitosis and cancer Risk factors of non-communicable disease Stem cells cloning Testing new drugs	and therapeutic Antibiotics required practical Plant diseases Monoclonal antibodies	Cell structure Specialised cells	
	SPRING 2		
Nervous system Brain structure Homeostasis and controlling body temperature	Secondary defence against infection - Vaccination and herd immunity	the immune system Cell structure Specialised cells	Summative Assessment 2 Y10 PPE (GCSE exam style paper based on AQA Biology paper 1 content)
DNA structure	SUMMER I Genetic disorders and family trees		
Meiosis and mitosis Punnett squares	Embryo screening	Cell structure	
	SUMMER 2		
Food chains, food webs and pyramids of biomass Adaptations, competition and interdependence Quadrats and population sampling		Food chains Ecosystems	



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