ancora house school

'Building Resilience for Future Success'

AQA Synergy Biology KS3 Curriculum Map

KS3	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics covered	**Cells** MRSGREN life processes Animal and Plant Cell Structure, make model structures. Microscopy Tissues, organs, and organ systems Multicellular organisms. Specialised cells **Observing cells :**Use of light microscope to observe, draw and label a selection of plant and animal. cells, **AQA Unit: cells 125844**	**Health and Wellbeing** The effect of reactional drugs on health and behaviour. Depressants Alcohol and the effects on brain/unborn baby. Smoking /painkillers Communicable disease Human illnesses How antibiotics work. Mental health Mindfulness and relaxation.	**Diet** What does body need energy for Energy from food. Healthy eating. Diet Brain food. Malnutrition Starvation Obesity Food tests. Food nutrition. Teeth and dental diseases.	**Reproduction** Male /female reproductive systems Puberty Changes during the menstrual cycle. Human fertilization Smoking during pregnancy Plant reproduction DNA/ genetics.	**Photosynthesis** Photosynthesis and respiration in plants Crop growing Investigating the rate of photosynthesis	**Ecosystems and habitats** Food chains and webs. Variations.. Adaptations of animals and plants Biodiversity Ecological sampling. Greenhouse gases climate change.

Application	Medicine Lab technician	Food Technology, Dietician Pharmacy/Pharmacology Medicine Biotechnologists, research engineers	Medicine, Agriculture, Public health Local Authority, Environmental Science.	Medicine, pharmacy Pharmacology	Public Health, Environmental Science, Local Authority/Councils	Earth Science, climate change, agriculture.
Prior Knowledge	Cell structure KS3	Types of pathogens Prevention of disease	WBC defense mechanisms.	KS3: Cells, tissue, organs, systems	Plant cell substructures.	Respiration recap. KS3 ecology work.
Assessment	Formative assessment during lessons where appropriate using classwork completed, past exam question, worksheets and verbal responses etc.	Formative assessment during lessons where appropriate using classwork completed, past exam question, worksheets and verbal responses etc.	Formative assessment during lessons where appropriate using classwork completed, past exam question, worksheets and verbal responses etc.	Formative assessment during lessons where appropriate using classwork completed, past exam question, worksheets and verbal responses etc.	Formative assessment during lessons where appropriate using classwork completed, past exam question, worksheets and verbal responses etc.	Formative assessment during lessons where appropriate using classwork completed, past exam question, worksheets and verbal responses etc.
Skills Builder and Preparation for Adulthood	Hypothesis & Theories – Problem Solving (step13) Communication (step 12-14) Hazards & Risks – Self management (step 14-15) Designing Investigations - Problem Solving (step14-15) Creativity (step 13) Measuring - Problem Solving (step10)			Collecting Data - Problem Solving (step14) Processing Data - Problem Solving (step10) Presenting Data – Communication (step 15) Problem Solving (step 9 & 10) Conclusions - Problem Solving (step15)		