Key Stage 3 Curriculum Map 2019 - 2020

Term 2

Year Group: 7	Subject: Science		
Focus/Topic	**Objectives**	**Key Skills**	**Home Learning/Recommended Reading**
• Baseline assessments, curriculum orientation and expectations			
<u>Cells</u> • Plant and animal cells • Structure and function of cells • Microscopes	• To identify key characteristics of living things • To explain the difference between animal and plant cells and explain functions • Use a microscope	• Working scientifically, numeracy, recall and application	• Start cells home learning project requires reading around the subject and research. Use BBC Bitesize to support.
• Specialised cells • Cell division •	• To understand cells can be specialised • To explain how cells divide	• Recall and application	• Continue cells home learning project
• Tissues, organs and organ systems	• To understand how tissues make organs and organs make organ systems	• Recall, application and working scientifically	
<u>Interdependence</u> • Classification and keys • Habitats	• To classify organisms • To explain why different organisms have different habitats	• Recall and application	
• Adaptations and extremophiles • Competition	• To explain why organisms adapt to its surroundings • To explain why animals compete		
• Food chains and food webs • Sampling techniques	• To draw food chains and food webs • To use quadrats and transects	• Recall, application, numeracy and working scientifically	• Finish cells home learning project and reading round the topic

Mid Term Break			
Variation • Differences between species • Variation practical	• To explain differences between species • To investigate variation	• Recall, application and working scientifically	• Start reproduction home learning project. Use KS3 revision guide and BBC Bitesize to read around the topic.
• Selective breeding	• To explain selective breeding	• Recall and application	• Continue reproduction home learning project
• DNA, genes and chromosomes	• To explain where DNA is found and explain the role of it		
• Patterns of inheritance •	• To explain difference between dominant and recessive alleles		
• Genetic engineering	• To investigate genetic engineering		
Reproduction • Reproductive organs	• To recall how the reproductive organs work		
• Fertilisation • Pregnancy and birth • Puberty and adolescence • Menstrual cycle	• To explain the process of fertilisation • To understand how pregnancy occurs • To recall how puberty takes place • To explain the stages of the menstrual cycle		• Finish reproduction home learning project

UAE Links across the term

Cells: What type of cells would you find in a camel and a palm tree?
Reproduction: Explain why the Sheikh has brown eyes.
Interdependence: Explain how a camel and a Falcon survives in the UAE.
Variation: If a camel from the UAE bred with an antelope, what would it look like?