Biology 10 Year Plan 2018-2019

Quarter 1 2018	Quarter 2 2019	Quarter 3 2019	Quarter 4 2019
Unit 1 – Introducing Biology Chapter 1. Biology in the 21st C. 2. Chemistry of Life **Unit 2 – Cells** Chapter 3. Cell Structure & Function 4. Cells & Energy 5. Cell Growth & Divisiion	**Unit 3 – Genetics** Chapter 6. Meiosis & Mendel 7. Extending Mendelian Genetics 8. From DNA to Proteins 9. Fronteirs of Biotechnology **Unit 4 – Ecology** Chapter 13. Principles of Ecology 14. Interactions in Ecosystems 15. The Biosphere	**Unit 4 cont'd – Ecology** Chapter 16. Human Impact on Ecosystems 17. Animal Behaviour **Unit 5 – Diversity of Life** Chapter 18. The Tree of Life 19. Viruses & Prokaryotes 20. Protists & Fungi	**Unit 5 Cont'd – Diversity of Life** Chapter 21. Plant Diversity 22. Invertebrate Diversity 23. Vertebrate Diversity 24. Human Systems & Homeostasis
Global Citizenship – Consider the question 'What are the ethical concerns involved in GE (genetic engineering vs. GMO (genetic modification) discussions.	Global Citizenship – Analyze the causes & potential solutions to species extinction	Global Citizenship – examine solutions to the problem of unsustainable agriculture	Global Citizenship – Draw pictographs indicating connections between ocean de-oxygenation, sea level rise & ice melt, ocean surface stratification and implications for marine habitat and ocean productivity, nutrient cycling, as well as the consequences of carbon cycling