



**Catholic
Memorial**
HIGH SCHOOL

Year Long Course Plan

Department: Science

Course: Environmental Science semester length 744

Essential Learning Outcomes: After successfully completing this course, students will be able to:

1. Apply the themes of science in order to develop and defend visions of the future.
2. Assess personal models and explanations and, using evidence, revise those models or explanations.
3. Correlate contributions of individuals and cultures to major developments in environmental science.
4. Design an experiment, formulate a hypothesis, and choose the best method of data collection.
5. Evaluate the results of an experiment and present the data to an audience in terms the audience can relate to.
6. Evaluate the portrayal of environmental science in the media
7. Explain how organisms cooperate and compete in ecosystems as well as inferring changes in ecosystems when these interactions are altered.
8. Discuss the flow of energy in living systems and relate this to food chains and food webs.
9. Analyze a specific problem in society related to environmental science and evaluate the costs and benefits for society.
10. Evaluate sources when conducting scientific research and making decisions.

Quarter 1	Quarter 2
Introduction to Environmental Science (ELOs 1,2,3,6,10) <ul style="list-style-type: none"> • Science and the environment • Tools of Environmental science Ecology (ELOs 1,2,3,6,7,8,10) <ul style="list-style-type: none"> • The organization of life 	Ecology (ELOs 1,2,3,6,7,8,10) <ul style="list-style-type: none"> • How ecosystems work • Biomes • Aquatic Ecosystems
Quarter 3	Quarter 4
Populations (ELOs 1,2,3,6,7,9,10) <ul style="list-style-type: none"> • Biodiversity • Invasive species Water, Air, and Land (ELOs 1,2,3,4,5,6,9,10) <ul style="list-style-type: none"> • Water 	Water, Air, and Land (ELOs 1,2,3,6,9,10) <ul style="list-style-type: none"> • Atmosphere and Climate • Land Use Energy (ELOs 1,2,3,4,5,6,9,10) <ul style="list-style-type: none"> • Mining • Nonrenewable and Renewable energy

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