Curriculum Map

Course Title: Biology	**Quarter:**	**Academic Year:**

Essential Questions for this Quarter:

1. How do you determine if an object is living or nonliving? 2. What impact does the environment have on a population?

Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
Study of Life	12.3.1	Study of Live	Levels of organization		
Principles of Ecology	12.3.3	Ecology	Analyze how energy flows through different trophic levels in an ecosystem		
Community, Ecosystem	12.3.3	Ecosystems	Role of human population		
Biodiversity / Conservation	12.3.3	Biodiversity	Explain how the stability of an ecosystem is increased by biological diversity.		
Chemistry in Bio	12.3.3	Chemistry in Biology	Understand the role of major organic compounds.		
Cell Structure/Function	12.3.1	Cell structure / function	Explain the structure and function of organelles		
Cell Energy	12.3.1	Cell Energy	Explain the need for energy and how energy is stored and released		
Cell Reproduction	12.3.2	Cell Reproduction	Understand DNA, process of protein production		
Genetics	12.3.2	Genetics	Apply Mendelian principles to the formation of offspring		
Human Heredity	12.3.2	Heredity	Explain that human genes are located on 22 autosomes		
Molecular Genetics	12.3.2	Molecular Genetics	Investigate applications and benefits of biotechnology		

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Biotechnology	12.3.1	Biotechnology	Analyze ethical issues with biotechnology		
Evolution	12.3.4	Evolution	Understand the types of evidence that support the theory of evolution.		
Classification	12.3.4	Classification	Know that organisms are classified in a system based on similarities reflected in their evolution relations and that species is the most fundamental classification.		
Animal Behavior	12.3.4	Animal Behavior	Understand how behaviors evolved through natural selection.		
Human Body	12.3.4	Body Systems	Understand the structure and function of each system.		

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