

**K to 12 BASIC EDUCATION CURRICULUM**  
**SENIOR HIGH SCHOOL – SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) SPECIALIZED SUBJECT**

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<b>Evolution and Origin of Biodiversity</b>	Relevance, Mechanisms, Evidence/Bases, and Theories of Evolution		1. describe general features of the history of life on Earth, including generally accepted dates and sequence of the geologic time scale and characteristics of major groups of organisms present during these time periods.	STEM_BIO11/12-IIIc-g-8
			2. explain the mechanisms that produce change in populations from generation to generation (e.g., artificial selection, natural selection, genetic drift, mutation, recombination)	STEM_BIO11/12-IIIc-g-9
			3. show patterns of descent with modification from common ancestors to produce the organismal diversity observed today	STEM_BIO11/12-IIIc-g-10
			4. trace the development of evolutionary thought	STEM_BIO11/12-IIIc-g-11
			5. explain evidences of evolution (e.g., biogeography, fossil record, DNA/protein sequences, homology, and embryology)	STEM_BIO11/12-IIIc-g-12
			6. infer evolutionary relationships among organisms using the evidence of evolution	STEM_BIO11/12-IIIc-g-13
<b>Systematics Based on Evolutionary Relationships</b>	Basic Taxonomic Concepts and Principles, Description, Nomenclature, Identification, and Classification		1. explain how the structural and developmental characteristics and relatedness of DNA sequences are used in classifying living things	STEM_BIO11/12IIIf-h-j-14
			2. identify the unique/distinctive characteristics of a specific taxon relative to other taxa	STEM_BIO11/12IIIf-h-j-15
			3. describe species diversity and cladistics, including the types of evidence and procedures that can be used to establish evolutionary relationships	STEM_BIO11/12IIIf-h-j-16

# General Biology Semester Two Reference Guide

**Annelies Wilder-Smith**



**General Biology Semester Two Reference Guide:**

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