

Alignment Document
State of Nevada and Aventa Learning

Biology CR

Strand	Common Curriculum Goal	Standard	Lesson Name
L.12: Life Science	L.12.A Students understand how genetic information is passed from one generation to another.	L.12.A.1 Students know genetic information passed from parents to offspring is coded in the DNA molecule	Genetics Unit
		L.12.A.2 Students know DNA molecules provide instructions for assembling protein molecules	Genetics Unit
		L.12.A.3 Students know all body cells in an organism develop from a single cell and contain essentially identical genetic instructions	Genetics, section 4
		L.12.A.4 Students know several causes and effects of somatic versus sex cell mutations	
		L.12.A.5 Students know how to predict patterns of inheritance	Genetics Unit
	L.12.B Students understand that all life forms, at all levels of organization, use specialized structure and similar processes to meet life's needs.	L.12.B.1 Students know cell structures and their functions	Unit 3 section 1 parts 5-9

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		L.12.B.2 Students know the human body has a specialized anatomy and physiology composed of an hierarchical arrangement of differentiated cells.	Animal Organ Systems Unit
		L.12.B.3 Students know disease disrupts the equilibrium that exists in a healthy organism	SEM B unit 9, section 5
	L.12.C Students understand that ecosystems display patterns of organization, change, and stability as a result of the interactions and interdependencies among the living and non-living components of the Earth.	L.12.C.1 Students know relationships of organisms and their physical environment	Unit 10, Parts 1 - 3
		L.12.C.2 Students know how changes in an ecosystem can affect biodiversity and biodiversity's contribution to an ecosystem's stability	Ecology section
		L.12.C.3 Students know the amount of living matter an environment can support is limited by the availability of matter, energy, and the ability of the ecosystem to recycle materials.	Ecology section

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		L.12.C.4 Students know the unique geologic, hydrologic, climatic, and biological characteristics of Nevada's bioregions	Ecology section
	L.12.D Students understand biological evolution and diversity of life.	L.12.D.1 Students know organisms can be classified based on evolutionary relationships.	Unit 7, Section 1
		L.12.D.2 Students know similarity of DNA sequences gives evidence of relationships between organisms.	Evolution unit, subsection on evidence for evolution.
		L.12.D.3 Students know the fossil record gives evidence for natural selection and its evolutionary consequences	Evolution unit, subsection on evidence for evolution.
		L.12.D.4 Students know the extinction of species can be a natural process.	Unit 6



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Strand	Common Curriculum Goal	Standard	Lesson Name
		L.12.D.5 Students know biological evolution explains diversity of life.	Evolution unit, subsection on classification as well as biodiversity
		L.12.D.6 Students know the concepts of natural and artificial selection	Unit 5, Section 1