

Alignment Document
State of Nevada and Aventa Learning

Earth Science CR

Strand	Common Curriculum Goal	Standard	Lesson Name
E.12 Earth and Space Science	E.12.A Students understand heat and energy transfer in and out of the atmosphere and influence climate	E.12.A.1 Students know the Sun is the major source of Earth's energy, and provides the energy driving Earth's weather and climate.	Unit 8 Section 1
		E.12.A.2 Students know the composition of Earth's atmosphere has changed in the past and is changing today.	Unit 6 Section 3
		E.12.A.3 Students understand the role of the atmosphere in Earth's greenhouse effect.	
		E.12.A.4 Students know convection and radiation play important roles in moving heat energy in the Earth system.	
		E.12.A.5 Students know Earth's rotation affects winds and ocean currents.	Unit 8 Weather
	E.12.B Students know scientific theories of origins and evolution of the universe.	E.12.B.1 Students know common characteristics of stars.	Unit 10 Astronomy
		E.12.B.2 Students know stars are powered by nuclear fusion of lighter elements into heavier elements, which results in the release of large amounts of energy.	Unit 10 Astronomy

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		E.12.B.3 Students know ways in which technology has increased understanding of the universe.	Unit 10 Section 3
		E.12.B.4 Students know the on-going processes involved in star formation and destruction.	Unit 10 Astronomy
		E.12.B.5 Students know scientific evidence suggest that the universe is expanding	
		E.12.B.7 Students know regular and predictable motions of Earth around the Sun and the Moon around the Earth explain such phenomena as the day, the year, phases of the Moon, and eclipses.	Unit 10 Section 2
	E.12.C Students understand evidence for processes that take place on a geologic time scale	E.12.C.1 Students know how successive rock strata and fossils can be used to confirm the age, history, and changing life forms of the Earth, including how this evidence is affected by the folding, breaking, and uplifting of layers	Unit 6



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		E.12.C.2 Students understand the concept of plate tectonics including the evidence that supports it (structural, geophysical and paleontological evidence).	Earth's Interior Unit
		E.12.C.3 Students know elements exist in fixed amounts and move through solid earth, oceans, atmosphere and living things as part of biogeochemical cycles.	Unit 9
		E.12.C.4 Student know processes of obtaining, using, and recycling of renewable and non-renewable resources.	Unit 9 Section 2
		E.12.C.5 Students know soil, derived from weathered rocks and decomposed organic material, is found in layers	Unit 3 Section 2