

EECSD Fall Call 2008

SD Science Content Standards Correlation for Biomonitoring

		Ecological Releve	Birding Adventure	<p><b>Ecological Releve:</b> Establish an ecological monitoring site designed for long term use.</p> <p><b>Birding Adventure:</b> Investigate bird diversity and their behaviors in various habitats.</p>
X	X	6.L.1.2		Explain the importance and scientific use of a classification system. (manage diversity & common naming system)
X	X	6.S.1.1		Describe how science and technology have helped society to solve problems. (GPS, GIS, Remote Sensing)
X	X	6.S.2.1		Identify the problem(s) of human activity on the local, regional, or global environment. (urban expansion)
X	X	6.N.2.1		Pose questions that can be explored through scientific investigations. (how does light affect plant growth)
X	X	7.L.1.3		Classify organisms by using the currently recognized kingdoms. (structure & function of each)
X		7.L.1.4		Describe and identify the structure of vascular and non-vascular plants. (roots, stems, leaves, & flowers)
X	X	7.L.3.1		Predict the effects of biotic and abiotic factors on a species' survival. (flooding, human activity...)
X	X	7.S.1.1		Describe how science and tech are used to solve problems in different prof and businesses.(GPS, GIS, Remote Sensing)
X	X	7.N.2.1		Conduct scientific investigations using given procedures. (teacher choice!)
		8.E.1.2		Explain the role of plate tectonics in shaping Earth. (changes over time - extinction, fossils, geo time)
X	X	8.S.1.1		Describe how science and tech have been influenced by social needs, attitudes, and values.(GPS, GIS, Remote Sensing)
X	X	8.S.2.1		Offer solutions to problems created by human activity on the local, regional, or global envt. (global warming, deforestation)
		8.N.1.1		Differentiate among facts, predictions, theory, and law/principles in sci invest.(teacher choice & diversity of scientists)
X	X	9-12.L.1.2		Classify organisms using characteristics and evolutionary relationship of major taxa. (kingdoms, phyla)
X	X	9-12.L.1.3		Identify structures and function relationships within major taxa. (leaves, muscle)
X	X	9-12.L.3.1		Identify factors that can cause changes in stability of populations, communities, and ecosystems. (seasons, resources...)
X	X	9-12.E.1.3		Assess how human activity has changed the land, ocean, and atmosphere of Earth. (farming, urban sprawl, grazing)
X	X	9-12.S.1.1		Explain ethical roles and responsibilities of scientists and scientific research. (sharing, accuracy, laws, animal research)
		9-12.N.1.1		Eval a sci disc to determine and describe how societal/cultural/personal beliefs influence sci invest and interp.(geo time)
X	X	9-12.N.2.1		Apply science process skills to design and conduct student investigations. (sci method and tech)