

Science Curriculum Links

CONSERVATION IN ACTION: An Educator's Guide to Species at Risk in BC for Grades 8 - 12

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January 2016

Overview of Module One: An Introduction to Species at Risk

ACTIVITY 1: What Do You Know About SAR? Intro to Species at Risk

An interactive activity that begins with a series of true/false statements to introduce the concepts associated with species at risk of potential extinction, followed by a group analysis of a case example.

ACTIVITY 2: What Species are at Risk in Your Community?

After a classroom-based introduction to the rationale and methods of field investigation of species at risk, a field trip to a local ecosystem introduces students to species at risk, their habitat and the historical geography of the area.

ACTIVITY 3: Species at Risk in the News

Working in small groups, students complete a project-based learning activity to research and produce a student magazine or other media to inform and take action on local species at risk.

KEY:

✓ = general link

✓ = direct link

* = see Elaborations on BC Ed new curriculum websites

Subject: Science 8

Big Ideas	Learning Standard: Content	Activity			Learning Standard: Curricular Competencies	Activity		
		1	2	3		1	2	3
Life processes are performed at the cellular level	Characteristics of life	✓	✓	✓	Questioning and predicting			
	The relationship of micro-organisms with living things				Demonstrate a sustained intellectual curiosity about a scientific topic or problem of personal interest	✓	✓	✓
					Make observations aimed at identifying their own questions about the natural world	✓	✓	✓
					Identify a question to answer or a problem to solve through scientific inquiry	✓	✓	✓
					Formulate alternative "If...then..." hypotheses based on their questions		✓	
					Make predictions about the findings of their inquiry		✓	
					Planning and conducting			
					Collaboratively plan a range of investigation types, including field work and experiments, to answer their questions or solve problems they have identified		✓	
					Measure and control variables (dependent and independent) through fair tests		✓	
					Observe, measure, and record data (qualitative and quantitative), using equipment, including digital technologies, with accuracy and precision		✓	
					Use appropriate SI units and perform simple unit conversions		✓	
					Ensure that safety and ethical guidelines are followed in their investigations		✓	
					Processing and analyzing data and information			
					Experience and interpret the local environment		✓	✓
					Apply First Peoples perspectives and knowledge, other ways of knowing, and local knowledge as sources of information			✓
					Construct and use a range of methods to represent patterns or relationships in data, including tables, graphs, keys, models, and digital technologies as appropriate		✓	✓
					Seek patterns and connections in data from their own investigations and secondary sources		✓	✓
					Use scientific understandings to identify relationships and draw conclusions		✓	✓



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Big Ideas	Learning Standard: Content	Activity			Learning Standard: Curricular Competencies	Activity		
		1	2	3		1	2	3
					Evaluating			
					Reflect on their investigation methods, including the adequacy of controls on variables (dependent and independent) and the quality of the data collected		✓	
					Identify possible sources of error and suggest improvements to their investigation methods		✓	✓
					Demonstrate an awareness of assumptions and bias in their own work and secondary sources		✓	✓
					Demonstrate an understanding and appreciation of evidence (qualitative and quantitative)		✓	✓
					Exercise a healthy, informed skepticism and use scientific knowledge and findings from their own investigations to evaluate claims in secondary sources		✓	✓
					Consider social, ethical, and environmental implications of the findings from their own and others' investigations		✓	✓
					Applying and innovating			
					Contribute to care for self, others, community, and world through personal or collaborative approaches		✓	✓
					Co-operatively design projects			✓
					Transfer and apply learning to new situations			✓
					Generate and introduce new or refined ideas when problem solving		✓	✓
					Communicating			
					Communicate ideas, findings, and solutions to problems, using scientific language, representations, and digital technologies as appropriate		✓	✓
					Express and reflect on a variety of experiences and perspectives of place		✓	✓

