Grade 5 Science

Curricular Competencies

		Questioning & Predicting				Planning & Conduting						Processing & Analyzing Data & Info					Evaluating						Applying & Innovating				Communicating	
Big Ideas	*Multicellular organisms have organ systems that enable them to survive and interact within their environment. *Solutions are homogeneous mixtures. *Machines are devices that transfer force and energy. *Humans use earth materials as natural resources.	Demonstrate a sustained curiosity about a scientific topic or problem of personal interest	Make observations in familiar or unfamiliar contexts	Identify questions to answer or problems to solve through scientific inquiry	Make predictions about the findings of their inquiry	Explore and pose questions that lead to investigations	With support, plan appropriate investigations to answer their questions or solve problems they have identified	Decide which variable should be changed and measured for a fair test	Choose appropriate data to collect to answer their questions	Observe, measure, and record data, using appropriate tools, including digital technologies	Use equipment and materials safely, identifying potential risks	Experience and interpret the local environment	Construct and use a variety of methods, including tables, graphs, and digital technologies, as appropriate, to represent patterns or relationships in data	Identify patterns and connections in data	Compare data with predictions and develop explanations for results	Demonstrate an openness to new ideas and consideration of alternatives	Evaluate whether their investigations were fair tests	Identify possible sources of error	Suggest improvements to their investigation methods	Identify some of the assumptions and given information in secondary sources	Demonstrate an understanding and appreciation of evidence	Identify some of the social, ethical, and environmental implications of the findings from their own and others' investigations	Contribute to care for self, others, and community 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	Communicate ideas, explanations, and processes in a variety of ways	Express and reflect on personal, shared, or others' experiences of place
Content	basic structures and functions of body systems: digestive, excretory, respiratory, circulatory																											
	solutions and solubility																											
	properties of simple machines and their force effects																											
	machines: constructed, found in nature																											
	power- the rate at which energy is transformed																											
	local types of earth materials																											
	the rock cycle																											
	Aboriginal concept of interconnectedness in the environment																											
	the nature of sustainable practices around BC's living and non-living resources																											