Grade 4 Science

Curricular Competencies

		Questioning & Predicting				Planning & Conduting					Processing & Analyzing Data & Info				Evaluating				Applying & Innovating				Communicating	
Big Ideas	*All living things and their environment are interdependent. *Matter has mass, takes up space, and can change phase. *Energy comes in a variety of forms that can be transferred from one object to another. *The motion of Earth and the moon cause observable patterns that affect living and non-living systems.	Demonstrate curiosity about the natural world	Observe objects and events in familiar contexts	Identify questions about familiar objects and events that can be investigated scientifically	Make predictions based on prior knowledge	Suggest ways to plan and conduct an inquiry to find answers to their questions	Consider ethical responsibilities when deciding how to conduct an experiment	Safely use appropriate tools to make observations and measurements, using formal measurements and digital technology as appropriate	Make observations about living and non-living things in the local environment	Collect simple data	Experience and interpret the local environment	Sort and classify data and information using drawings or provided tables	Use tables, simple bar graphs, or other formats to represent data and show simple patterns and trends	Compare results with predictions, suggesting possible reasons for findings	Make simple inferences based on their results and prior knowledge	Reflect on whether an investigation was a fair test	Demonstrate an understanding and appreciation of evidence	Identify some simple environmental implications of their and others' actions	Contribute to care for self, others, school, and neighbourhood through individual or collaborative approaches	Co-operatively design projects	Transfer and apply learning to new situations	Generate and introduce new or refined ideas when problem solving	Represent and communicate ideas and findings in a variety of ways, such as diagrams and simple reports, using digital technologies as appropriate	Express and reflect on personal or shared experiences of place
Content	the ways organisms in ecosystems sense and respond to their environment																							
	solids, liquids, and gases as matter																							
	the effect of temperature on pressure in a gas																							
	energy: has various form, is conserved																							
	devices that transform energy																							
	local changes caused by Earth's axis, rotation, and orbit																							
	features of biomes																							
	the relationship between the sun and the moon																							