Grade 3 Science

Curricular Competencies

Big Ideas

*Living things are diverse, can be grouped, and interact in their ecosystems.

*All matter is made of particles.

*Thermal energy can be produced and transferred.

*Wind, water, and ice change the shape of the land.

Content	Questioning & Predicting				Planning & Conduting					Processing & Analyzing				Evaluating				Applying & Innovating				Communicating	
	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
biodiversity in the local environment																							
Aboriginal knowledge ofecosystems																							
energy - needed for life																							
atoms or molecules as particles of matter																							
properties of materials - related to the particles they consist of																							
sources of thermal energy																							
transfer of thermal energy																							
major local landforms																							
observable changes in the local environment caused by erosion and deposition by wind, water, and ice																							