**Science 9 Earth Science Unit Overview**

1. Effects of solar radiation (Textbook topic 4.2, 4.3)
	* solar radiation provides the energy required for most life on Earth
	* root cause of wind and ocean currents, which distributes energy and nutrients around the planet
	* drives the water cycle through convection currents
2. Matter cycles (Textbook topic 4.4)
	* nutrients and matter are cycled throughout the Earth
		+ nitrogen
		+ carbon
		+ phosphorous
	* nutrients and matter are stored in “sinks” and released from stores
		+ humans have a direct impact on sources and sinks
	* bioaccumulation and biomagnification
3. Sustainability of Ecosystems (Textbook topic 4.5, parts of 4.1)
	* all matter and energy are interconnected and exist in a dynamic equilibrium
		+ climate change, greenhouse effect
	* these connections exist locally and globally
	* First Peoples have a variety of perspectives on sustainability
	* First Peoples have a variety of perspectives on interconnectedness