Topic	Key Concepts	Related Concepts	Theme	ATL skills	Lines of Inquiry	Summative Assessments	Assessment Objectives
Stand-alone: introduction to the scientific method	Responsibility Form Causation	Organisation	Who We Are	Communication Skills Exchanging-information skills (listening, interpreting, speaking) Social Skills Developing positive interpersonal relationships and collaboration skills (using self-control, managing setbacks, supporting peers) Developing social-emotional intelligence Self-Management Skills States of mind (emotional management, self-motivation, resilience).	- the scientific method	Students to use the scientific method to describe the steps of one of this unit's experiment.	Baseline Assessments Physical science Earth & space science Life science Introduce scientific method (steps) Topics for experiments: - Plants - Animals - Forces - Temperature "
Stand-alone: plant and animal survival	Form Connection Perspective	Patterns Survival Environment	Where We Are in Place and Time	Communication Skills Exchanging Information (Speaking, Listening, Interpreting) Social Skills Developing social-emotional intelligence Thinking Skills Critical-thinking skills (analysing and evaluating issues and ideas) Reflections/metacognition skills (reconsidering the process of learning)	- what plants and animals need to survive - how animals and plants change the environment to meet their needs	organiser to show the needs of	K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive. K-ESS2-2. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.
Integrated: Living things have certain requirements to grow and stay healthy.	Form Function Responsibility	Biodiversity, ecosystems, life cycles	Sharing the Planet Central Idea: Living things have certain requirements in order to grow and stay healthy.	Self-Management Skills States of mind (mindfulness, perseverance) Communication skills ICT skills (using technology to gather, investigate and communicate information) Research Skills Information-literacy skills (formulation and planning, data gathering and recording, synthesising and interpreting, evaluating and communicating) Media literacy skills (interacting with media to use and create ideas and information) Thinking skills Critical-thinking skills (analysing and evaluating issues and ideas) Reflections/metacognition skills (reconsidering the process of learning)	- Different plants and animals - Features of habitats - Protecting living things and their habitats	plant/flower/tree/animal they are interested in learning and knowing more about. They will describe their characteristics, benefits and our responsibility towards it.	K-ESS3-1. Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live. K-ESS3-3. Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. * K-2-ETS1-1. Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.



	Function Causation Perspective	Weather conditions Weather forecasting Earth's surface Sunlight	How We Express Ourselves	Thinking Skills Creative-thinking skills (generating novel ideas and considering new perspectives) Communication Skills Literacy skills (reading, writing and using language to gather and communicate information) Research skills Media literacy skills (interacting with media to use and create ideas and information)	- the effect of sunlight on Earth's surface - patterns of local weather conditions - purpose of weather forecasting	different weather conditions. This will be used as a role play area.	Physical Science K-PS3-1. Make observations to determine the effect of sunlight on Earth's surface. K-PS3-2. Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.* Earth and Space Science K-ESS2-1. Use and share observations of local weather conditions to describe patterns over time. K-ESS3-2. Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather.* Engineering K-2-ETS1-1. Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.
Plan and conduct an	Change Function Connection		How the World Works Central Idea: Forces cause things to move in different ways.	1 0, 0	- How objects may be moved - How forces act on objects - How we use our knowledge about forces in everyday objects		K-PS2-1. Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object. K-PS2-2. Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.*

Taking Action

Taking action is one of the five essential elements of the PYP and an intricate part of the inquiry cycle which could be interpreted as a "conclusion" to learning. When taking action, students make connections to new knowledge they have acquired and apply their skills in everyday life.

Please note: At times areas of the curriculum will change based on the learning needs and interests of the students.

