

# Yukon Programs Application Form

**Application For:** Presentations

**Agency/Department:** Ocean Wise

**Date of Submission:** September 24<sup>th</sup> 2019

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**Request Initiated by:** Rachael Bell-Irving

**Title:** Virtual Aquaclass

<http://www.vanaqua.org/education/school-programs/virtual-aquaclass>

Grade	Subject	Big Ideas	Curricular Competencies	Content
K	Science	Plants and animals have observable features Humans interact with matter every day through familiar materials Daily and seasonal changes affect all living things	Questioning and Predicting Planning and Conducting Processing and Analyzing Evaluating Applying and Innovating Communicating	Basic needs of plants and animals Adaptations of plants and animals Weather and climate Living things make changes
1	Science	Living things have features and behaviours that help them survive in their environment	Questioning and Predicting Planning and Conducting Processing and Analyzing Evaluating Applying and Innovating Communicating	Classification of living and non-living things Behavioural adaptations
2	Science	Living things have life cycles adapted to their environment Water is essential to all living things, and it cycles through the environment	Questioning and Predicting Planning and Conducting Processing and Analyzing Evaluating Applying and Innovating Communicating	Water sources Water conservation Water cycle
3	Science	Wind, water and ice change the shape of the land Living things are diverse, can be grouped, and interact with their ecosystems	Questioning and Predicting Planning and Conducting Processing and Analyzing Evaluating Applying and Innovating Communicating	Biodiversity in the local environment Observational changes in the local environment caused by erosion and deposition by wind, water, and ice

4	Science	All living things sense and respond to their environment The motions of earth and the moon cause observable patterns that affect living and non-living things	Questioning and Predicting Planning and Conducting Processing and Analyzing Evaluating Applying and Innovating Communicating	Sensing and responding Biomes as large regions with similar environmental features The effect of temperature on particle movement
5	Science	Multicellular organisms have organ systems that enable them to survive and interact within their environment Earth materials change as they move through the rock cycle and can be used as natural resources	Questioning and Predicting Planning and Conducting Processing and Analyzing Evaluating Applying and Innovating Communicating	The rock cycle Types of earth materials The nature of sustainable practices in BC
6	Science	Multicellular organisms rely on internal systems to survive, reproduce and interact with their environment	Questioning and Predicting Planning and Conducting Processing and Analyzing Evaluating Applying and Innovating Communicating	
7	Science	Evolution by natural selection provides an explanation for the diversity and survival of living things Earth and its climate have changed over geological time	Questioning and Predicting Planning and Conducting Processing and Analyzing Evaluating Applying and Innovating Communicating	Organisms have evolved over time Survival needs Natural selection Fossil records Evidence of climate change
8	Science		Questioning and Predicting Planning and Conducting Processing and Analyzing Evaluating Applying and Innovating Communicating	Characteristics of life Micro-organisms Plate tectonics Layers of the earth
9	Science	The biosphere, geosphere, hydrosphere, and atmosphere are interconnected, and matter cycles and energy flows through them	Questioning and Predicting Planning and Conducting Processing and Analyzing Evaluating Applying and Innovating Communicating	Reproduction Matter cycles Sustainability of systems
10	Science	Energy change is required as atoms rearrange in chemical processes	Questioning and predicting Planning and conducting Processing and analyzing information Evaluating Applying and innovating Communicating	Local and global impacts of energy transformations from technologies. Practical applications and implications of chemical processes

				Simple and complex global food systems and how they affect food choices, including environmental, ethical, economic, and health impacts
11	Environmental Science	Human practices affect the sustainability of ecosystems Humans can play a role in the stewardship and restoration of ecosystems	Questioning and predicting Planning and conducting Processing and analyzing information Evaluating Applying and innovating Communicating	Energy flow through ecosystems Human actions and their impact on ecosystem integrity Resource stewardship
11	Science for Citizens	Scientific understanding enables humans to respond and adapt to changes locally and globally	Questioning and predicting Planning and conducting Processing and analyzing information Evaluating Applying and innovating Communicating	Beneficial scientific innovations Human impact on Earth's system: natural resources and effects of climate change Actions and decisions affecting the local and global environment, including those of First Peoples Evidence-based decision making through science Personal and public health practices
11	Earth Sciences	The distribution of water has a major influence on weather and climate	Questioning and predicting Planning and conducting Processing and analyzing information Evaluating Applying and innovating Communicating	Influences of large bodies of water on local and global climates The hydrologic cycle Properties of the ocean and the ocean floor Water as a unique resource Evidence of climate change Effects of climate change on water sources
12	Environmental Sciences	Human actions affect the quality of water and its ability to sustain life Human activities cause changes in the global climate system	Questioning and predicting Planning and conducting Processing and analyzing information Evaluating Applying and innovating Communicating	Water quality Availability and water use impacts Changes in climate systems Impact of global warming

		Living sustainable supports the well-being of self, community and earth		Personal choices and living sustainably
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**How will your project enhance Yukon schools?**

Bring the ocean to your students without having to leave the classroom. The Virtual Aquaclass gives you one-to-one access with an expert educator. Each program will come with curated resources to help you continue the conversation with your students. This program is a great resources to support classroom conversations and provide students with access to expert content in the field.

Department Resource Committee Review Date: \_\_\_\_\_

Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

Reasons if application is declined:

Approved for:

Restrictions, if any: