

Yukon Programs Application Form

Application For: Resource

Agency/Department: Ocean Wise

Date of Submission: September 24th 2019

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Request Initiated by: Rachael Bell-Irving

Title: Ocean Literacy Courses <http://literacy.ocean.org/>

Grade	Subject	Big Ideas	Curricular Competencies	Content
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 Living sustainable supports the well-being of self, community and earth	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 Personal choices and living sustainably

How will your project enhance Yukon schools?

Through Ocean Literacy, we can create a global curriculum. As it spreads around the world, there is an increasing need for these kinds of tools. The more teachers are required to encourage global citizenship in their classrooms; they will be in need of these kinds of resources. This Ocean Literacy Tool is a supportive and adaptive resource that can be used for different geographical and cultural contexts. Through teaching Ocean Literacy, students develop the skills that they need to succeed as individuals, all through an ocean lens. It enables us as educators, learners, teachers, and students to understand the ocean, develop our own personal connection with it, and create future change through these principles. Virtual learning is a powerful way for all of us, as education leaders around the world, to engage and connect with a wider audience and connect those youth to each other as well. By creating these courses, both students and teachers have the resources they need to create action in their homes, in their classrooms, and to take this new knowledge out into the community.

Professional reviews. The ocean literacy courses and additional online learning platforms are utilized in the National Dialogue as a way for students to connect offline and access the activities and resources. It is also a supporting resource for the Plastic Education Kit. Please refer to the supporting documents for the National Dialogue Program and Plastic Education Kit.

Department Resource Committee Review Date: _____

Approved: Yes _____ No _____

Reasons if application is declined:

Approved for:

Restrictions, if any: