

SEAFOOD EDUCATION / CURRICULAR CONNECTIONS- MIDDLE LEVEL

English Language Arts		Exploring and sharing multiple perspectives extends our thinking			●	●		●	
		Questioning what we hear, read and view contributes to our ability to be educated and engaged citizens.	●		●	●	●	●	
Competencies									
Core:	Communication		●	●	●	●	●	●	●
	Creative Thinking		●		●	●	●	●	●
	Critical Thinking				●	●	●	●	●
	Social Awareness and Responsibility		●	●	●	●	●	●	●
Curricular:	Science	Questioning and predicting	●		●	●	●	●	●
		Processing and analyzing information	●	●	●	●	●	●	●
		Evaluating			●	●		●	●
		Applying and innovating			●	●	●	●	●
		Communicating	●	●	●	●	●	●	●
	Social Studies	Use inquiry processes and skills	●		●	●	●	●	●
		Explain different perspectives				●		●	
	English Language Arts	Comprehend and Connect	●	●	●	●	●	●	●
		Create and communicate	●	●	●	●	●	●	●
Content:	Science	Survival needs	●			●	●		●
		Recent impacts of humans	●	●	●	●	●	●	●
	English Language Arts	Metacognitive strategies for talking and thinking about learning	●	●	●	●	●	●	●
	Applied Design, Skills & Technologies	Food Studies – factors that influence food choices, including cost, availability, and family and cultural influences							●
GRADE 8									

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Big Ideas									
Science	Life processes are performed at the cellular level						●		●
Applied Design, Skills and Tech	Complex tasks require the acquisition of additional skills.								●
	Complex tasks require the acquisition of additional skills.								●
	Design can be responsive to identified needs							●	●
English Language Arts	Exploring and sharing multiple perspectives extends our thinking			●	●			●	
	Questioning what we hear, read and view contributes to our ability to be educated and engaged citizens	●		●	●	●	●	●	
Competencies									
Core: *same as Gr. 7									
Curricular: *same as Gr. 7									
Content:	Science	Characteristics of life		●			●		●
	English Language Arts	Metacognitive strategies for talking and thinking about learning	●	●	●	●	●	●	●
	Applied Design, Skills & Technologies	Local food systems							●

ALBERTA

			Lessons	1. Humans connect to oceans through seafood	2. Seafood can be produced by aquaculture	3. Sustainability of aquaculture	4. Comparison of wild fishing and aquaculture	5. Aquaculture mimics natural marine ecosystems	6. Environmental and social impacts of seafood	7. Aquaculture innovation creates sustainable options
GRADE 7										
Science										
Unit A: Interactions and Ecosystems	Science, Technology and Society, and Knowledge Outcomes	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions	●	●	●	●	●	●	●	●
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments		●			●		●	
	Skill Outcomes	Analyze qualitative and quantitative data, and develop and assess possible explanations	●		●	●	●			●
		Work collaboratively on problems; and use appropriate language and formats to communicate ideas, procedures and results	●		●	●	●	●		●
	Attitude Outcomes	Show interest in science-related questions and issues, and pursue personal interests and career possibilities within science-related fields	●		●					●
		Appreciate that scientific understanding evolves from the interaction of ideas involving people with different views and backgrounds				●			●	●
		Demonstrate sensitivity and responsibility in pursuing a balance between the needs of humans and a sustainable environment	●		●	●	●			●

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English Language Arts								
Discover and Explore	Express ideas and develop understanding		●	●	●	●	●	●
Clarify and Extend	Consider the ideas of others				●	●	●	●
	Combine ideas		●	●	●	●	●	●
Use Strategies and Cues	Use comprehension strategies		●		●	●	●	●
Present and Share	Present information		●	●	●	●		●
	Enhance presentation			●	●			●
	Use effective oral and visual communication		●	●	●	●	●	●
Social Studies								
Skills and Processes	Dimensions of Thinking		●		●	●	●	●
	Research for Deliberative Inquiry		●		●			●
	Communication		●	●	●	●	●	●
GRADE 8								
Science								
Unit E: Freshwater and Saltwater Systems	Science, Technology and Society, and Knowledge Outcomes	Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues.	●		●	●	●	●
	Skill Outcomes	*same as Gr. 7						
	Attitude Outcomes	*same as Gr. 7						
English Language Arts *same as Gr. 7								

SASKATCHEWAN

		Lessons	1. Humans connect to oceans through seafood	2. Seafood can be produced by aquaculture	3. Sustainability of aquaculture	4. Comparison of wild fishing and aquaculture	5. Aquaculture mimics natural marine ecosystems	6. Environmental and social impacts of seafood	7. Aquaculture innovation creates sustainable options
GRADE 7									
Cross-Curricular Competencies	Developing Thinking	●	●	●	●	●	●	●	●
	Developing Identity and Interdependence	●	●	●	●	●	●	●	●
	Developing Literacies	●	●	●	●	●	●	●	●
	Developing Social Responsibility	●	●	●	●	●	●	●	●
Science									
Life Science – Interactions within Ecosystems	Analyze how ecosystems change in response to natural and human influences, and propose actions to reduce the impact of human behaviour on a specific ecosystem.	●		●	●				●
Social Studies									
Dynamic relationships	Appraise the impact of human habitation on the natural environment in Canada, and in a selection of Pacific Rim and northern circumpolar countries.			●	●	●			●
Mathematics									
	Demonstrate an understanding of the relationships between oral and written patterns, graphs and linear relations.	●							
GRADE 8									
Cross-Curricular Competencies * same as Gr. 7									
Science									

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Earth and Space Science – Water Systems on Earth	Analyze natural factors and human practices that affect productivity and species distribution in marine and fresh water environments	●	●	●	●	●		●
Social Studies								
Resources and Wealth	Assess the implications of personal consumer choices.	●			●		●	
	Critique the approaches of Canada and Canadians to environmental stewardship and sustainability.			●	●	●		●
Mathematics								
	Demonstrate understanding of linear relations concretely, pictorially (including graphs), physically, and symbolically.	●						

MANITOBA

		Lessons	1. Humans connect to oceans through seafood	2. Seafood can be produced by aquaculture	3. Sustainability of aquaculture	4. Comparison of wild fishing and aquaculture	5. Aquaculture mimics natural marine ecosystems	6. Environmental and social impacts of seafood	7. Aquaculture innovation creates sustainable options
GRADE 7									
Science									
Interactions Within Ecosystems	Identify environmental, social, and economic factors that should be considered in the management and preservation of ecosystems.			●	●				
Science Skills and Attitudes:	Researching	●	●	●	●	●	●	●	●
	Planning								●
	Analyzing and Interpreting	●							
	Concluding and Applying								●
	Demonstrate Scientific and Technological Attitudes	●	●	●	●	●	●	●	●
Social Studies									
Human Impact on Europe or the Americas	Give examples of the impact of human activity on the natural environment in a society of Europe or the Americas.	●	●					●	●
	Be willing to take actions to help sustain the natural environment in Canada and the world.		●	●			●	●	●
	Be willing to consider the consequences of their consumer choices	●		●	●	●	●	●	●
Social Studies Skills	Make decisions that reflect principles of environmental stewardship and sustainability.		●	●	●	●	●	●	●

SEAFOOD EDUCATION / CURRICULAR CONNECTIONS - MIDDLE LEVEL

	Select information from a variety of oral, visual, material, print, or electronic sources	●	●	●	●	●	●	●
	Interpret information and ideas in a variety of media	●	●				●	
	Present information and ideas orally, visually, concretely, or electronically	●	●	●	●	●	●	●
English Language Arts (2019)								
Language as Sense Making	Learners are using a variety of thinking processes to make sense of and respond to increasingly varied and complex text.	●		●	●	●	●	●
GRADE 8								
Science								
Science skills and attitudes * same as Gr. 7								
Social Studies								
Social Studies Skills * same as Gr. 7.								
English Language Arts * same as Gr. 7								

ONTARIO

		Lessons	1. Humans connect to oceans through seafood	2. Seafood can be produced by aquaculture	3. Sustainability of aquaculture	4. Comparison of wild fishing and aquaculture	5. Aquaculture mimics natural marine ecosystems	6. Environmental and social impacts of seafood	7. Aquaculture innovation
GRADE 7									
Science									
Understanding Life Systems: Interactions in the Environment	Ecosystems are in a constant state of change. The changes may be caused by nature or by human intervention.			●	●	●		●	
	Human activities have the potential to alter the environment		●	●	●	●	●	●	●
	Humans must be aware of these impacts and try to control them		●	●	●	●	●	●	●
	Assess the impacts of human activities and technologies on the environment, and evaluate ways of controlling these impacts.			●	●	●		●	
Language									
Oral Communication	Listen in order to understand and respond appropriately in a variety of situations for a variety of purposes		●	●	●	●	●	●	●
	Use speaking skills and strategies appropriately to communicate with different audiences for a variety of purposes	●	●	●	●	●	●	●	●
Reading	Read and demonstrate an understanding of a variety of literary, graphic, and informational texts, using a range of strategies to construct meaning	●	●	●	●	●	●	●	●
Writing	Generate, gather, and organize ideas and information to write for an intended purpose and audience	●		●	●	●	●		

SEAFOOD EDUCATION / CURRICULAR CONNECTIONS - MIDDLE LEVEL

Mathematics								
Data Management and Probability	Make and evaluate convincing arguments, based on the analysis of data.	●						
GRADE 8								
Science								
Developing Investigation and Communication Skills	Use a variety of forms (e.g., oral, written, graphic, multimedia) to communicate with different audiences and for a variety of purposes			●	●	●	●	
Language *same as Gr. 7								
Mathematics								
Data Management and Probability	Apply a variety of data management tools and strategies to make convincing arguments about data.	●						

SEAFOOD EDUCATION / CURRICULAR CONNECTIONS- MIDDLE LEVEL

QUEBEC

		Lessons	1. Humans connect to oceans through seafood	2. Seafood can be produced by aquaculture	3. Sustainability of aquaculture	4. Comparison of wild fishing and aquaculture	5. Aquaculture mimics natural marine ecosystems	6. Environmental and social impacts of seafood	7. Aquaculture innovation creates sustainable options
GRADE 7									
Broad Areas of Learning	Environmental Awareness and Consumer Rights and Responsibilities	●	●	●	●	●	●	●	●
Cross Curricular Competencies	Uses information	●	●	●	●	●	●	●	●
	Adopts effective work methods	●	●	●	●	●	●	●	●
	Cooperates with others	●	●	●	●	●	●	●	●
	Communicates appropriately	●	●	●	●	●	●	●	●
Science and Technology									
Communication strategies	Using various means of communication	●	●	●	●	●	●	●	●
Attitudes	Respect for life and the environment				●	●	●	●	
Social Studies									
Geography <i>Competency 3</i>	Constructs his/her consciousness of global citizenship	●			●			●	
English Language Arts									
	Uses language/talk to communicate and to learn	●	●	●	●	●	●	●	●
	Represents her/his literacy in different media –		●		●	●			●
	Reads and listens to written, spoken and media texts	●	●	●	●	●	●	●	●
	Writes a variety of genres for personal and social purposes	●		●	●	●	●	●	●
GRADE 8 *same as Gr. 7									

SEAFOOD EDUCATION / CURRICULAR CONNECTIONS - MIDDLE LEVEL

	Writing and Representing	●		●	●	●	●	●
GRADE 8								
Science * same as Gr. 7								
Social Studies * same as Gr. 7								
English Language Arts * same as Gr. 7								

SEAFOOD EDUCATION / CURRICULAR CONNECTIONS - MIDDLE LEVEL

NOVA SCOTIA

		Lessons	1. Humans connect to oceans through seafood	2. Seafood can be produced by aquaculture	3. Sustainability of aquaculture	4. Comparison of wild fishing and aquaculture	5. Aquaculture mimics natural marine ecosystems	6. Environmental and social impacts of seafood	7. Aquaculture innovation
GRADE 7									
Science									
Attitudes	Develop attitudes that support the responsible acquisition and application of scientific and technological knowledge to the mutual benefit of self, society, and the environment.		●	●	●	●	●	●	
English Language Arts									
General Curricular Outcomes	Communicate information and ideas effectively and clearly, and to respond personally and critically.	●		●	●		●	●	
	Select, read, and view with understanding a range of literature, information, media, and visual texts.	●	●	●	●	●	●	●	●
	Interpret, select, and combine information using a variety of strategies, resources, and technologies.	●		●	●	●	●	●	●
Social Studies									
Interdependence	Demonstrate an understanding of the interactions among people, places, and the environment.	●		●	●	●	●	●	●
GRADE 8									
Science *same as Gr. 7									
English Language Arts *same as Gr. 7									
Social Studies *same as Gr. 7									

NORTHWEST TERRITORIES

		Lessons	1. Humans connect to oceans through seafood	2. Seafood can be produced by aquaculture	3. Sustainability of aquaculture	4. Comparison of wild fishing and aquaculture	5. Aquaculture mimics natural marine ecosystems	6. Environmental and social impacts of seafood	7. Aquaculture innovation creates sustainable options
GRADE 7									
Science **same as Alberta Science curriculum									
Social Studies									
Skills	Attitude - Responsibility toward the environment and community (local, regional, territorial, national, global)			●	●	●	●	●	●
	Processing – acquire, evaluate and use information and ideas	●		●	●	●	●	●	●
	Communication – express and present information and ideas	●	●	●	●	●	●	●	●
	Participation – interact with others	●	●	●	●	●	●	●	●
The Circumpolar World	Successful environmental protection on a large scale arises from many personal commitments to a healthy environment			●	●	●	●	●	●
	A sense of responsible stewardship over the northern world	●		●	●				●
English Language Arts									
General Outcomes <i>Students will listen, speak, read, write, view, and represent...</i>	-to comprehend and respond personally and critically to oral, print, and other media texts, through a process.	●		●	●	●	●	●	●

SEAFOOD EDUCATION / CURRICULAR CONNECTIONS - MIDDLE LEVEL

	-to plan and focus an inquiry or research and interpret and analyze information, through a process.	●		●	●			●
GRADE 8								
Science **same as Alberta Science curriculum								
Social Studies								
Skills *same as Gr. 7								
English Language Arts *same as Gr. 7								

NUNAVUT

	Lessons	1. Humans connect to oceans through seafood	2. Seafood can be produced by aquaculture	3. Sustainability of aquaculture	4. Comparison of wild fishing and aquaculture	5. Aquaculture mimics natural marine ecosystems	6. Environmental and social impacts of seafood	7. Aquaculture innovation creates sustainable options
GRADE 7								
Science **same as Alberta Science curriculum								
Social Studies **same as Northwest Territories curriculum								
English Language Arts **same as Northwest Territories curriculum								
GRADE 8								
Science **same as Alberta Science curriculum								
Social Studies **same as Northwest Territories curriculum								
English Language Arts **same as Northwest Territories curriculum								