

RIVER SCHOOL PROGRAM CURRICULAR CONNECTIONS

BUILDING CLIMATE RESILIENCE: Fish Passage Design

(Grade 4 - 7)

Students will learn about different kinds of fish passage infrastructure over blockages in river systems, and how the design of fishways must be adapted to fish behaviour.

Grade	Subject	Curricular Area	Features
4	Science	Big Ideas	<ul style="list-style-type: none"> All living things sense and respond to their environment
		Curricular Competencies	<ul style="list-style-type: none"> Demonstrate curiosity about the natural world Observe objects and events in familiar contexts Identify questions about familiar objects and events that can be investigated scientifically Make predictions based on prior knowledge Experience and interpret the local environment Identify First Peoples perspectives and knowledge as sources of information Sort and classify data and information using drawings or provided tables Compare results with predictions, suggesting possible reasons for findings Make simple inferences based on their results and prior knowledge Demonstrate an understanding and appreciation of evidence Identify some simple environmental implications of their and others' actions Represent and communicate ideas and findings in a variety of ways, such as diagrams and simple reports, using digital technologies as appropriate Express and reflect on personal or shared experiences of place
	Social Studies	Big Ideas	<ul style="list-style-type: none"> The pursuit of valuable natural resources has played a key role in changing the land, people, and communities of Canada.
		Curricular Competencies	<ul style="list-style-type: none"> Use Social Studies inquiry processes and skills to ask questions; gather, interpret, and analyze ideas; and communicate findings and decisions Make ethical judgments about events, decisions, and actions that consider the conditions of a particular time and place; ethical judgment
5	Science	Big Ideas	

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			<ul style="list-style-type: none"> Multicellular organisms have organ systems that enable them to survive and interact within their environment
		Curricular Competencies	<ul style="list-style-type: none"> Make observations in familiar or unfamiliar contexts Observe, measure, and record data, using appropriate tools, including digital technologies Experience and interpret the local environment Construct and use a variety of methods, including tables, graphs, and digital technologies, as appropriate, to represent patterns or relationships in data Make predictions about the findings of their inquiry Identify some of the social, ethical, and environmental implications of the findings from their own and others' investigations Communicate ideas, explanations, and processes in a variety of ways Express and reflect on personal, shared, or others' experiences of place Demonstrate an openness to new ideas and consideration of alternatives
		Content	<ul style="list-style-type: none"> Basic structures and functions of body systems The nature of sustainable practices around BC's resources
	Social Studies	Curricular Competencies	<ul style="list-style-type: none"> Sequence objects, images, and events, and recognize the positive and negative aspects of continuities and changes in the past and present Differentiate between intended and unintended consequences of events, decisions, and developments, and speculate about alternative outcomes Make ethical judgments about events, decisions, or actions that consider the conditions of a particular time and place, and assess appropriate ways to respond
	Science	Big Ideas	<ul style="list-style-type: none"> Multicellular organisms have organ systems that enable them to survive and interact within their environment
6		Curricular Competencies	<ul style="list-style-type: none"> Make observations in familiar or unfamiliar contexts

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			<ul style="list-style-type: none"> • Observe, measure, and record data, using appropriate tools, including digital technologies • Make predictions about the findings of their inquiry • Experience and interpret the local environment • With support, plan appropriate investigations to answer their questions or solve problems they have identified • Construct and use a variety of methods, including tables, graphs, and digital technologies, as appropriate, to represent patterns or relationships in data • Identify patterns and connections in data • Identify some of the social, ethical, and environmental implications of the findings from their own and others' investigations • Communicate ideas, explanations, and processes in a variety of ways • Express and reflect on personal, shared, or others' experiences of place • Co-operatively design projects
	Social Studies	Curricular Competencies	<ul style="list-style-type: none"> • Use Social Studies inquiry processes and skills to — ask questions; gather, interpret, and analyze ideas; and communicate findings and decisions • Sequence objects, images, or events, and recognize the positive and negative aspects of continuities and changes in the past and present • Differentiate between short- and long-term causes, and intended and unintended consequences, of events, decisions, or developments • Make ethical judgments about events, decisions, or actions that consider the conditions of a particular time and place, and assess appropriate ways to respond
7	Science	Big Ideas	<ul style="list-style-type: none"> • Evolution by natural selection provides an explanation for the diversity and survival of living things
		Curricular Competencies	<ul style="list-style-type: none"> • Identify questions about familiar objects and events that can be investigated scientifically • Make predictions based on prior knowledge • Experience and interpret the local environment

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			<ul style="list-style-type: none"> • Identify some simple environmental implications of their and others' actions • Contribute to care for self, others, school, and neighbourhood through individual or collaborative approaches • Make observations aimed at identifying their own questions about the natural world • Use scientific understandings to identify relationships and draw conclusions
		Content	<ul style="list-style-type: none"> • Survival needs • Natural selection
	Social Studies	Curricular Competencies	<ul style="list-style-type: none"> • Differentiate between intended and unintended consequences of events, decisions, and developments, and speculate about alternative outcomes; cause and consequence • Make ethical judgments about events, decisions, and actions that consider the conditions of a particular time and place; ethical judgment