

RIVER SCHOOL PROGRAM CURRICULAR CONNECTIONS

Living Dinosaurs: White Sturgeon

(K - Grade 7)

Students explore the life cycle and habitat of the elusive white sturgeon through real specimens and a fun felt storyboard. Students also learn how people’s actions can impact sturgeon in the Fraser River, fostering a sense of responsibility to the local environment.

Grade	Subject	Curricular Area	Features
K	Science	Big Ideas	<ul style="list-style-type: none"> Plants and animals have observable features
		Curricular Competencies	<ul style="list-style-type: none"> Experience and interpret the local environment Share observations and ideas orally Demonstrate curiosity and a sense of wonder about the world Ask simple questions about familiar objects and events Make exploratory observations using their senses Discuss observations Share observations and ideas orally Express and reflect on personal experiences of place
		Content	<ul style="list-style-type: none"> adaptations of local plants and animals
	Social Studies	Curricular Competencies	<ul style="list-style-type: none"> Identify fair and unfair aspects of events, decisions, and actions in their lives and consider appropriate courses of action
		Content	<ul style="list-style-type: none"> rights, roles, and responsibilities of individuals and groups people, places, and events in the local community, and in local First Peoples communities
	English Language Arts	Big Ideas	<ul style="list-style-type: none"> Stories and other texts can be shared through pictures and words. Language and story can be a source of creativity and joy.
Curricular Competencies		<ul style="list-style-type: none"> Plan and create stories and other texts for different purposes and audiences Explore oral storytelling processes 	
1	Science	Big Ideas	<ul style="list-style-type: none"> Living things have features and behaviours that help them survive in their environment.
		Curricular Competencies	<ul style="list-style-type: none"> Experience and interpret the local environment Identify simple patterns and connections Demonstrate curiosity and a sense of wonder about the world

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			<ul style="list-style-type: none"> • Compare observations with predictions through discussion • Communicate observations and ideas using oral or written language, drawing, or role-play • Express and reflect on personal experiences of place
		Content	<ul style="list-style-type: none"> • names of local plants and animals • structural features of living things in the local environment • behavioural adaptations of animals in the local environment
	Social Studies	Big Ideas	<ul style="list-style-type: none"> • We shape the local environment, and the local environment shapes who we are and how we live. • Rights, roles, and responsibilities shape our identity and help us build healthy relationships with others.
		Curricular Competencies	<ul style="list-style-type: none"> • Sequence objects, images, and events, and distinguish between what has changed and what has stayed the same • Identify fair and unfair aspects of events, decisions, and actions in their lives and consider appropriate courses of action • Ask questions, make inferences, and draw conclusions about the content and features of different types of sources
		Content	<ul style="list-style-type: none"> • natural and human-made features of the local environment • relationships between a community and its environment • roles, rights, and responsibilities in the local community
	English Language Arts	Big Ideas	<ul style="list-style-type: none"> • Stories and other texts can be shared through pictures and words. • Curiosity and wonder lead us to new discoveries about ourselves and the world around us.
		Curricular Competencies	<ul style="list-style-type: none"> • Use sources of information and prior knowledge to make meaning • Use developmentally appropriate reading, listening, and viewing strategies to make meaning • Engage actively as listeners, viewers, and readers, as appropriate, to develop understanding of self, identity, and community • Explore oral storytelling processes
2	Science	Big Ideas	<ul style="list-style-type: none"> • Living things have life cycles and features adapted to their environment • Water is essential to all living things, and it cycles through the environment

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		Curricular Competencies	<ul style="list-style-type: none"> • Demonstrate curiosity and a sense of wonder about the world • Observe objects and events in familiar contexts • Ask questions about familiar objects and events • Make simple predictions about familiar objects and events • Safely manipulate materials to test ideas and predictions • Experience and interpret the local environment • Compare observations with predictions through discussion • Identify simple patterns and connections • Consider some environmental consequences of their actions 	
		Content	<ul style="list-style-type: none"> • metamorphic and non-metamorphic life cycles of different organisms • similarities and differences between offspring and parent • water sources including local watersheds 	
	Social Studies	Big Ideas	<ul style="list-style-type: none"> • Local actions have global consequences, and global actions have local consequences. 	
		Curricular Competencies	<ul style="list-style-type: none"> • Sequence objects, images, and events, and distinguish between what has changed and what has stayed the same • Make value judgments about events, decisions, or actions, and suggest lessons that can be learned 	
		Content	<ul style="list-style-type: none"> • relationships between people and the environment in different communities • roles and responsibilities of regional governments 	
	Math	Big Ideas	<ul style="list-style-type: none"> • Concrete items can be represented, compared, and interpreted pictorially in graphs. 	
		Curricular Competencies	<ul style="list-style-type: none"> • Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving • Visualize to explore mathematical concepts • Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures 	
	3	Science	Big Ideas	<ul style="list-style-type: none"> • Living things are diverse and can be grouped and interact in their ecosystems
			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

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			<ul style="list-style-type: none"> • Make predictions based on prior knowledge • Safely use appropriate tools to make observations and measurements, using formal measurements and digital technology as appropriate • Make observations about living and non-living things in the local environment • Collect simple data • Experience and interpret the local environment • 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
		Content	<ul style="list-style-type: none"> • biodiversity in the local environment • major local landforms
	Social studies	Curricular Competencies	<ul style="list-style-type: none"> • Sequence objects, images, or events, and explain why some aspects change and others stay the same. • Make value judgments about events, decisions, or actions, and suggest lessons that can be learned
		Content	<ul style="list-style-type: none"> • relationship between humans and their environment
	Math	Curricular Competencies	<ul style="list-style-type: none"> • Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving • Visualize to explore mathematical concepts
		Content	<ul style="list-style-type: none"> • one-to-one correspondence with bar graphs, pictographs, charts, and tables
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 • Safely use appropriate tools to make observations and measurements, using formal measurements and digital technology as appropriate • Make observations about living and non-living things in the local environment • Collect simple data • Experience and interpret the local environment

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			<ul style="list-style-type: none"> Sort and classify data and information using drawings or provided tables Use tables, simple bar graphs, or other formats to represent data and show simple patterns and trends 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"> 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
	Math	Curricular Competencies	<ul style="list-style-type: none"> Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving Visualize to explore mathematical concepts Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures Connect mathematical concepts to each other and to other areas and personal interests
5	Science	Big Ideas	<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

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			<ul style="list-style-type: none"> • 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
		Content	<ul style="list-style-type: none"> • basic structures and functions of body systems • First Peoples concepts of interconnectedness in the environment • 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
	Math	Curricular Competencies	<ul style="list-style-type: none"> • Use reasoning to explore and make connections • Use technology to explore mathematics • Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving • Visualize to explore mathematical concepts • Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures • Use mathematical vocabulary and language to contribute to mathematical discussions • Reflect on mathematical thinking • Connect mathematical concepts to each other and to other areas and personal interests
6	Science	Big Ideas	<ul style="list-style-type: none"> • Multicellular organisms have organ systems that enable them to survive and interact within their environment

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	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 • 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
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
Math	Curricular Competencies	<ul style="list-style-type: none"> • Use reasoning and logic to explore, analyze, and apply mathematical ideas • Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving • Visualize to explore mathematical concepts • Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures • Communicate mathematical thinking in many ways • Represent mathematical ideas in concrete, pictorial, and symbolic forms • Reflect on mathematical thinking • Connect mathematical concepts to each other and to other areas and personal interests

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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 • 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
		Content	<ul style="list-style-type: none"> • survival needs
	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
	Math	Curricular Competencies	<ul style="list-style-type: none"> • Use reasoning and logic to explore, analyze, and apply mathematical ideas • Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving • Visualize to explore mathematical concepts • Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures • Communicate mathematical thinking in many ways • Represent mathematical ideas in concrete, pictorial, and symbolic forms • Reflect on mathematical thinking • Connect mathematical concepts to each other and to other areas and personal interests