

Wisconsin State Science Standards

Content Area: Environmental Literacy and Sustainability

ELS.C1: Students develop and connect with their sense of place and well-being through observation, exploration, and questioning.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

ELS.EX2: Students evaluate relationships and structures of natural and cultural systems and analyze their interdependence.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

ELS.EX3: Students assess how diversity influences health and resilience of natural and cultural systems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

ELS.EX4: Analyze the interactions and outcomes of cycles and flows in natural and cultural systems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Let's Go Mucking!	

ELS.EX5: Investigate and analyze how change and adaptation impact natural and cultural systems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

ELS.EN6: Students analyze the dynamic balance between natural and cultural systems.			
Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy
ELS.EN7: Students engage in experiences to develop stewardship for the sustainability of natural and cultural systems.			
Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs			
Content Area: Life Science			
Standard SCI.LS1--Organisms: Students use science and engineering practices, crosscutting concepts, and an understanding of structures and processes from molecules to organisms to make sense of phenomena and solve problems.			
Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy
Standard SCI.LS2--Ecosystems: Students use science and engineering practices, crosscutting concepts, and an understanding of interactions, energy and dynamics in ecosystems to make sense of phenomena and solve problems.			
Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Into the Weeds Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy
Standard SCI.LS3--Heredity: Students use science and engineering practices, crosscutting concepts, and an understanding of heredity, inheritance and the variation of traits to make sense of phenomena and solve problems.			
Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	The Great Mussel Mystery What Makes a Bird a Bird?	

Standard SCI.LS4--Evolution: Students use science and engineering practices, crosscutting concepts, and an understanding of the unity and diversity that results from biological evolution to make sense of phenomena and solve problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Content Area: Science and Engineering Practices

Standard SCI.SEP1: Students will be able to ask questions and define problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Standard SCI.SEP2: Students will be able to develop and use models.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Into the Weeds	

Standard SCI.SEP3: Students will be able to plan and carry out investigations.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	

Standard SCI.SEP4: Students will be able to analyze and interpret data.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Into the Weeds Let's Go Birding! Let's Go Mucking!	

Standard SCI.SEP5: Students will be able to use mathematics and computational thinking.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Into the Weeds Let's Go Birding! Let's Go Mucking!	

Standard SCI.SEP6: Students will be able to construct explanations and design solutions.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Standard SCI.SEP7: Students will be able to engage in argument from evidence.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Standard SCI.SEP8: Students will be able to construct explanations and design solutions.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Content Area: Crosscutting Concepts

Standard SCI.CC1--Patterns: Students will understand that observed patterns in nature guide organization and classification and prompt questions about relationships and causes underlying them.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Standard SCI.CC2--Cause and Effect: Students will understand that events have causes, sometimes simple, sometimes multifaceted. Deciphering causal relationships, and the mechanisms by which they are mediated, is a major activity of science and engineering.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Standard SCI.CC3--Scale, Proportion, and Quantity: Students will understand when considering phenomena, it is critical to recognize what is relevant at different size, time, and energy scales and to recognize proportional relationships between different quantities as scales change.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Standard SCI.CC4--Systems and System Models: Students will understand that a system is an organized group of related objects or components. Models can be used for understanding and predicting the behavior of systems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds The Great Mussel Mystery	

Standard SCI.CC5--Energy and Matter: Students will understand that tracking energy and matter as they flow into, out of, and within systems helps one understand their system's behavior.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs			

Standard SCI.CC6--Structure and Function: The way an object is shaped or structured determines many of its properties and functions.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Standard SCI.CC7--Stability and Change: Students will understand that for both designed and natural systems, conditions that affect stability and factors that control rates of change are critical elements to consider.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Into the Weeds The Great Mussel Mystery	A Watershed in Jeopardy

Content Area: Engineering, Technology and the Application of Science

Standard: SCI.ETS1: Students use science and engineering practices, crosscutting concepts, and an understanding of engineering design to make sense of phenomena and solve problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Let's Go Birding! Let's Go Mucking!	A Watershed in Jeopardy

Standard: SCI.ETS2: Students use science and engineering practices, crosscutting concepts, and an understanding of the Links Among Engineering, Technology, Science, and Society to make sense of phenomena and solve problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Into the Weeds Let's Go Birding! Let's Go Mucking!	A Watershed in Jeopardy

Standard: SCI.ETS2: Students use science and engineering practices, crosscutting concepts, and an understanding of the Links Among Engineering, Technology, Science, and Society to make sense of phenomena and solve problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs		Into the Weeds	A Watershed in Jeopardy

Content Area: Earth and Space Science

Standard SCI.ESS1: Students use science and engineering practices, crosscutting concepts, and an understanding of Earth's place in the universe to make sense of phenomena and solve problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs			

Standard SCI.ESS2: Students use science and engineering practices, crosscutting concepts, and an understanding of Earth's systems to make sense of phenomena and solve problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! The Great Mussel Mystery	

Standard SCI.ESS3: Students use science and engineering practices, crosscutting concepts, and an understanding of Earth and human activity to make sense of phenomena and solve problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Content Area: Physical Science

Standard SCI.PS1: Students use science and engineering practices, crosscutting concepts, and an understanding of matter and its interactions to make sense of phenomena and solve problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Standard SCI.PS2: Students use science and engineering practices, crosscutting concepts, and an understanding of forces, interactions, motion and stability to make sense of phenomena and solve problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Standard SCI.PS3: Students use science and engineering practices, crosscutting concepts, and an understanding of energy to make sense of phenomena and solve problems.

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy

Standard SCI.PS4: Students use science and engineering practices, crosscutting concepts, and an understanding of waves and their

Grade Level Bands	K-2	3-5	6-12
Rivers Are Alive Online Programs	Meet a Mussel	Into the Weeds Let's Go Birding! Let's Go Mucking! The Great Mussel Mystery What Makes a Bird a Bird?	A Watershed in Jeopardy