Grade Eight Resources

TRC's Education Program Director/Consultant, Dave Taylor, has put together a variety of resources for teachers and students that can be used to enhance the learning experience of field trips at Riverwood.

This document contains a list of recommended videos and questions to help guide discussion. These resources follow the appropriate curriculum for the various grades and will help your students to connect their time at Riverwood to their classroom learning.

Recommended Videos for Water Systems (Full Day) Field Trip

Bird Series	Title	Vimeo Ref #
Salmon Series Ser	Full Lei	ngth Videos
Materfowl Series	Canada The Wild Land 1867	https://vimeo.com/251389071
Canada Goose	Bir	d Series
https://vimeo.com/136303259 frumpeter Swans: Fall https://vimeo.com/147677940 Mute Swan: New Life https://vimeo.com/147805880 Long-tailed Duck: December https://vimeo.com/149522781 American White Pelican https://vimeo.com/149522781 American White Pelican https://vimeo.com/13813983 Red-neck grebe https://vimeo.com/13813983 Red-neck grebe https://vimeo.com/13813982 Wading Bird Series https://vimeo.com/13818085 Great Blue Heron https://vimeo.com/138188085 Great Blue Heron https://vimeo.com/140252114 Miscellaneous https://vimeo.com/140252114 Miscellaneous https://vimeo.com/316845111 Swammal Series https://vimeo.com/316845111 Raccoon: The Masked Bandit https://vimeo.com/149074624 Raccoon: The Masked Bandit https://vimeo.com/147546097 Fish Series https://vimeo.com/147546097 Fish Series https://vimeo.com/142707570 Fishing for Salmon https://vimeo.com/14271891 Salmon Spawning (Underwater) https://vimeo.com/14317439 Salmon Spawning (Underwater) https://vimeo.com/14317439 Calmon Spawning (Above) https	Waterfowl Series	
https://vimeo.com/147677940 Mute Swan: New Life	Canada Goose	https://vimeo.com/139764575
Mute Swan: New Life https://vimeo.com/147805880 Long-tailed Duck: December https://vimeo.com/149522781 American White Pelican https://vimeo.com/128865047 Double Crested Cormorant https://vimeo.com/138113983 Red-neck grebe https://vimeo.com/138113981 Red-neck grebe https://vimeo.com/138113982 Wading Bird Series Great Blue Heron https://vimeo.com/138188085 Great Blue Heron: Nesting https://vimeo.com/140252114 Miscellaneous Common Loon: seasonal changes https://vimeo.com/316845111 Mammal Series River Otter https://vimeo.com/149074624 Raccoon: The Masked Bandit https://vimeo.com/128866461 Rodent Series Muskrat Dawn https://vimeo.com/147546097 Fish Series Salmon Series Credit River Salmon https://vimeo.com/142070570 Fishing for Salmon https://vimeo.com/142571891 Salmon Spawning (Underwater) https://vimeo.com/143154590 Salmon Spawning (above) https://vimeo.com/143171639 Chinook Salmon: Life Continues https://vimeo.com/144807457 Brown Bear/ Red Salmon II https://vimeo.com/145041154 Brown Bear/ Red Salmon III https://vimeo.com/145043154 Brown Bear/ Red Salmon III https://vimeo.com/145043154 Brown Bear/ Red Salmon III https://vimeo.com/145126332	Wood Duck	https://vimeo.com/136303259
Long-tailed Duck: December American White Pelican Double Crested Cormorant Red-neck grebe I Red-neck grebe II Red-neck g	Trumpeter Swans: Fall	https://vimeo.com/147677940
American White Pelican Double Crested Cormorant Double Crested Cormoral States Double Crested Cormorant Double Crested Cormorant Double Crested Cormorant Double Crested Cormorant Double Crested Co	Mute Swan: New Life	https://vimeo.com/147805880
Double Crested Cormorant Red-neck grebe I Red-neck grebe II Red-nec	Long-tailed Duck: December	https://vimeo.com/149522781
Red-neck grebe I https://vimeo.com/138113981 Red-neck grebe II https://vimeo.com/138113982 Wading Bird Series Great Blue Heron https://vimeo.com/138188085 Great Blue Heron: Nesting https://vimeo.com/140252114 Miscellaneous Common Loon: seasonal changes https://vimeo.com/316845111 Mammal Series Carnivores: River Otter https://vimeo.com/149074624 Raccoon: The Masked Bandit https://vimeo.com/228866461 Rodent Series Muskrat Dawn https://vimeo.com/147546097 Fish Series Salmon Series Credit River Salmon https://vimeo.com/142070570 Fishing for Salmon https://vimeo.com/142810905 Leaping Salmon https://vimeo.com/142571891 Salmon Spawning (Underwater) https://vimeo.com/143154590 Galmon Spawning (above) https://vimeo.com/143171639 Chinook Salmon: Life Continues https://vimeo.com/144807457 Brown Bear/ Red Salmon II https://vimeo.com/145041154 Brown Bear/Red Salmon III https://vimeo.com/145041154 Brown Bear/Red Salmon III https://vimeo.com/145041154 Brown Bear/Red Salmon III https://vimeo.com/145126332	American White Pelican	https://vimeo.com/228865047
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Brown Bear/Red Salmon III https://vimeo.com/145126332	Brown Bear/ Red Salmon I	https://vimeo.com/144924550
	Brown Bear/ Red Salmon II	https://vimeo.com/145041154
Salmon Story 2917 v2 Full Story https://vimeo.com/236629272	Brown Bear/Red Salmon III	https://vimeo.com/145126332
	Salmon Story 2917 v2 Full Story	https://vimeo.com/236629272

Amphibian Series		
Time of the Toads	https://vimeo.com/136310291	
Song of the Toads	https://vimeo.com/165717571	
Some Frogs of Riverwood	https://vimeo.com/139878092	
Spotted Salamander	https://vimeo.com/165057810	
Reptile Series		
Snapping Turtle	https://vimeo.com/139764574	
Snaggle-tooth: Bull Alligator	https://vimeo.com/149577993	
Gator Gaits	https://vimeo.com/165717599	
Green Sea Turtle underwater	https://vimeo.com/165057838	
Habitat Series		
Wild Riverwood (no narration)	https://vimeo.com/247240424	
Wild Riverwood (narration)	https://vimeo.com/246723815	
The Credit River	https://vimeo.com/136302909	
The Gardens of Riverwood	https://vimeo.com/139156254	
The Marsh: Late Summer	https://vimeo.com/139921652	
Water Falls	https://vimeo.com/141351235	
Forest Wildlife in Summer	https://vimeo.com/140056479	
Fall Comes to Riverwood	https://vimeo.com/143640179	
Photographing Water	https://vimeo.com/168405948	
Riverwood in Summer	https://vimeo.com/316859894	
Africa Safari Videos		
Elephants in the Rain	https://vimeo.com/228869078	
Serengeti	https://vimeo.com/228862548	
Wildebeest and Crocodiles	https://vimeo.com/199820283	
Nature: New Born Hippo	https://vimeo.com/292744028	
New Born Hippo	https://vimeo.com/292748557	

General Discussion Questions: Based on Grade 8 Understanding Earth and Space Systems: Water Systems

Q: Which species rely on water for their survival?

A: ALL.

Q: Which species nest in wetlands?

A: Red-necked Grebe, Canada Goose, Mallard duck, Green Heron, Great Blue Heron, Cormorant, Alligator, Muskrat

Q: Which species breed in wetlands?

A: Frogs, Toads, Fish, Waterfowl, Red-wing Blackbird, Turtles, Beaver, Muskrat, Mink, Otter, Alligator

Q: How does the changing availability of water effect the ecosystem? (I.e. Droughts, Floods, Seasonal Changes, Climate Change)

A: A lack of water (drought) can lead to loss of plant life and the wildlife that relies of in. Flooding can have a similar impact by drowning plant life or tearing it down with a loss of wildlife. Seasonal changes are part of the rhythm of nature and wildlife has the ability to adapt to it. The degree to which they can adapt however varies from species to species. Ethologists (scientists who study animal behaviour) speak in terms of how plastic a species response to change is. (Plastic refers to a species ability to change. Deer are quite adaptable and very plastic in their response. Spring peepers (extirpated from Riverwood in the last two decades) are very ridge and could not adapt to changes. They are not very plastic in their response. Evolutionary biologists also use the term genetic plasticity to describe this ability to respond to change. However major climate shifts or abrupt changes in weather patterns can stress the wildlife (plants and animals) to the point where they are negatively affected. Chinook salmon wait to migrate up their natal streams until a heavy rain raises the level of the river and washes the river's scent into Lake Ontario.

Q: How might human activities effect the water sources species need for their survival (give both positive and negative examples)?

A: **Negative:** human caused pollution can negatively stress the environment and lower water quality. Dams can increase deposition in some places, lower water level in others and cause a loss of nutrients downstream from the dam. Dams also alter the natural rhythm of the river by reducing seasonal flooding. Seasonal flooding can remove debris, carry nutrients into the water and improve the overall health of the river. Dam building on the Credit River in the 1800's was a major factor in the extirpation of the native salmon (Atlantic salmon). **Positive:** Planting trees along the shore to stabilize the banks and reduce erosion and sediment. The trees also provide shade which cools the river/water for cold-water loving fish like salmon. Reducing chemical treatments for lawns and gardens reduce the pollutants that reach the water. Cleaning up spills and other events that impact the water. Passing and enforcing regulation that help improve the environment.

Additional Resources

Dave Taylor Wildlife

www.DaveTaylorWildlife.com

Dave Taylor's Youtube

https://www.youtube.com/channel/UCZATOyhjleb9Tte9neU1CBQ

About Dave Taylor

The videographer and creator of these resources is Dave Taylor, TRC's Education Director/Consultant. Dave is a retired Peel Teacher who for most of his 30 plus years taught science and geography to grade 7 & 8's. He was also a Science Resource Teacher and he spent two years at the Britannia School Farm when it first opened. He has written over 40 books on natural history including resource books for teachers.

He is one of Canada's best known wildlife photographers. His company, *J. D. Taylor "Senses of Wildness" Inc.* produces and holds the copyright on these productions. Schools may use them for educational purposes but no unauthorized use other than as stated above may be undertaken without the written consent of *J. D. Taylor "Senses of Wildness" Inc.* He can be reached via this website.

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