

Grade Four 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 "Habitats," "Light & Sound," and "Rocks & Minerals" field trips have been included.

Recommended Videos for Habitats (Full Day) Field Trip

Title	Vimeo Ref #
Full Length Videos	
Canada The Wild Land 1867	https://vimeo.com/251389071
Bird Series	
Passerines (Song Birds)	
American Robin	https://vimeo.com/140211420
Barn Swallows	https://vimeo.com/139288244
Birds of Riverwood (Passerines)	https://vimeo.com/341462482
Blue-gray Gnatcatcher	https://vimeo.com/138396455
The House Wren	https://vimeo.com/248047456
Tree Swallow Spring	https://vimeo.com/142759487
Yellow Warbler Nest	https://vimeo.com/172460379
Waterfowl Series	
Canada Goose	https://vimeo.com/139764575
Wood Duck	https://vimeo.com/136303259
Trumpeter 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/228865047
Double Crested Cormorant	https://vimeo.com/138113983
Red-neck grebe I	https://vimeo.com/138113981
Red-neck grebe II	https://vimeo.com/138113982
Birds of Prey Series	
Bald Eagle Nest	https://vimeo.com/136310292
Bald Eagle Journal	https://vimeo.com/138396452
Osprey	https://vimeo.com/138188060
Osprey and Hawk	https://vimeo.com/234912270
Hummingbirds	
Ruby-throated Hummingbird	https://vimeo.com/228854826
Ruby-throated Hummingbird II	https://vimeo.com/248055066
Wading Bird Series	
Great Blue Heron	https://vimeo.com/138188085
Great Blue Heron: Nesting...	https://vimeo.com/140252114
Sandhill Crane: Fall Migration	https://vimeo.com/149531081

Sandhill Cranes: Southern ON	https://vimeo.com/228903477
Game Bird Series	
Wild Turkey	https://vimeo.com/142160748
Owl Series	
Great Horned Owl Nest	https://vimeo.com/167631462
Great Horned Owllet: Feeding	https://vimeo.com/167631461
Mammal Series	
Carnivores:	
River Otter	https://vimeo.com/149074624
Raccoon: The Masked Bandit	https://vimeo.com/228866461
Canine Series	
Coyote	https://vimeo.com/138113980
Red Fox Hunting	https://vimeo.com/228858600
Gray Wolves Summer	https://vimeo.com/141294225
Bears * See also Salmon Series	
Black Bear	https://vimeo.com/138113984
Black Bear Big Males	https://vimeo.com/228899188
Black Bear Red Berries	https://vimeo.com/228854076
Three Cubs and a Bull Bison	https://vimeo.com/316811578
Brown Bear/ Red Salmon I*	https://vimeo.com/144924550
Brown Bear/ Red Salmon II*	https://vimeo.com/145041154
Brown Bear/Red Salmon III*	https://vimeo.com/145126332
Salmon Story 2917 v2 Full Story	https://vimeo.com/236629272
Grizzly Bear: Cubs of the year	https://vimeo.com/292608660
Nature: Grizzly Bear: Cubs of the year	https://vimeo.com/292606506
Rodent Series	
Muskrat Dawn	https://vimeo.com/147546097
Cottontail Rabbit: Spring	https://vimeo.com/149039850
Company's Coming: Prairie Dogs and Bison	https://vimeo.com/293470500
Nature: Company's Coming: Prairie Dogs and Bison	https://vimeo.com/293471621
Yellow-bellied Marmot	https://vimeo.com/343317201
Yellow-bellied Marmot (narrated)	https://vimeo.com/343531283
Ungulate Series:	
White-tailed Deer Series	
White-tailed Fawn	https://vimeo.com/136302906
White-tailed Kindergarten	https://vimeo.com/138188058
White-tailed Deer: The Rut Begins	https://vimeo.com/145217845
White-tailed Deer: Six-point and the doe	https://vimeo.com/145698474
Big Buck and the Does	https://vimeo.com/147281198
White-tail Buck: Summer	https://vimeo.com/147403643
Whitetails in January	https://vimeo.com/229480453
White-tail Buck: Fall	https://vimeo.com/147414945
Nature: White Tails Sparring	https://vimeo.com/292577632
White Tails Sparring	https://vimeo.com/292576279
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
Salmon Spawning (above)	https://vimeo.com/143171639
Chinook Salmon: Life Continues	https://vimeo.com/144807457
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
Insects and Invertebrate Series	
Honey Bees in the Hive	https://vimeo.com/142680332
Pollinators and Predators	https://vimeo.com/138188061
Monarch	https://vimeo.com/138188059
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
African Safari Videos	
Elephants in the Rain	https://vimeo.com/228869078
Serengeti	https://vimeo.com/228862548
Lesser Flamingos	https://vimeo.com/229265604
Wildebeest and Crocodiles	https://vimeo.com/199820283
Nature: New Born Hippo	https://vimeo.com/292744028
New Born Hippo	https://vimeo.com/292748557
At the Kill	https://vimeo.com/344423233
At the Kill (narrated)	https://vimeo.com/344633590

Recommended Videos for Light & Sound (Full Day) Field Trip

Title	Vimeo Ref. #
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

Recommended Videos for Rocks & Minerals (Full Day) Field Trip

Title	Vimeo Ref. #
Reptile Series	
Dinosaurs: Imaging Lost Worlds	https://vimeo.com/144908930

General Discussion Questions: Based on Grade 4 Understanding Life Systems: Habitats and Communities

Q: Some species are not found at Riverwood. Why is this?

A: Simply put there are two main reasons. The habitat is not suitable or the species is not suited for an urban natural area. Black bears are a good example for both of these. See the answer below for more details.

Q: One species (the black bear) used to found here. What caused it to disappear?

A: Black bears were hunted out of this region by about the 1850's or 60's. They were both a source of food, hides and fat but they were also a large predator that was deemed a threat to livestock and people. Today black bear numbers are on the increase but natural areas around Riverwood is so fragmented that there is not enough space here to meet their needs for food, shelter and water.

Q: Which species is most likely to be impacted by the activities of people?

A: This answer will vary as more videos are posted. Some of the most vulnerable species on the property are the frogs, coyote and some of the birds. The answer also depends on how you define the activities of people. Coyote are welcomed here but many people outside the natural area fear them and it may be that a fearful (and uneducated) public might demand that they be removed. Frogs however may be reduced by airborne or water borne pollutants due to traffic and poor waste management protocols. Birds might be impacted by increased foot traffic or noise levels.

Q: Build a simple food chain for some of the animals featured based on what you observe in the videos.

A: A few examples based on the first 20 or so videos:

- 1. Grass > Black bear.*
- 2. Duck weed > Mallard > Coyote.*

3. Tree > White-tailed Deer > Coyote

4. Sunflower > Chickadee > Hawk

Q: Describe the type of habitat that each species needs.

A: Marsh (standing water, not very deep, open waters): Muskrat, Canada goose, Trumpeter swan, Great blue heron

Forest (trees, dry land, seasonal changes): White-tailed deer, coyote, squirrel, raccoon

Garden (cultivated flowers, dry land with frequent watering): Bumble bee, spider, butterflies, insects

Q: How do they use their habitat to ensure they can raise their young?

A: Habitats provide shelter, space, food, nesting material, safe nesting areas (shelter), source of water, food for prey species, nutrients for healthy food

Q: What are some examples of these animals interacting within their population?

A: A population is defined as a number of organisms of the same species. So all examples must be between members of that species for example: fawns interacting with does, black bear cubs playing, young birds begging for food, adult birds feeding them, Canada goose calling to each other

Q: Which of these animals are found in the Riverwood community?

A: See appendix I

Q: Which animals are consumers? Producers? Predators? Prey?

A: See appendix I

Q: Which animals are carnivores? Herbivores? Insectivores? Scavengers? Omnivores?

A: See appendix I

Q: Which animals can live near cities?

A: Most of the animals in these videos can be found within the city borders of the GTA (Greater Toronto Area). The exception is the black bear but there are certainly cities like Vancouver, British Columbia, where black bears are frequently seen within city limits.

Q: Which animals need to be in areas away from cities?

A: Black bear.

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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Appendix I: Animal Status, Role of Species Shown (N. American)

Species	Riverwood Presence Y = Yes N = No EX = Extirpated	Role: All Animals are Consumers All Plants are Producers H = Herbivorous (plant eater)* C = Carnivorous (meat eater)* O = Omnivorous* (plant & meat) S = Scavenger (carrion) I = Insectivore (insects)	Predator or Prey (Note animals can both a predator on another species and the prey of other species.) PR = Predator PY = Prey
American Toad	Y	C	PR PY
Bullfrog	Y	C	PR PY
Green Frog	Y	C	PR PY
Northern Leopard Frog	Y	C	PR PY
American Goldfinch	Y	O	PR PY
American Robin	Y	O	PR PY
Bald Eagle	Y (rare)	C	PR PY
Baltimore Oriole	Y	O	PR PY
Barn Swallow	Y	C	PR PY
Black-capped Chickadee	Y	C	PR PY
Blue-gray Gnatcatcher	Y	C	PR PY
Canada Goose	Y	H	PR PY
Cedar Waxwing	Y	O	PR PY
Common Loon	N	C	PR
Double Crested Cormorant	Y	C	PR PY
Downy Woodpecker	Y	O	PR PY
Eastern Phoebe	Y	C	PR PY
Gray Catbird	Y	C	PR PY
Great Blue Heron	Y	C	PR
Sandhill Crane	Y (fly over)	H	PY
Great Horned Owl	Y	C	PR
Greater Yellowlegs	Y	C	PR PY
Great Egret	Unconfirmed	C	PR PY
Green Heron	Y	C	PR PY
House Finch	Y	C	PRPY
Mallard Duck	Y	H	PY
Northern Flicker	Y	C	PR PY
Mute Swan	N	H	PY
Osprey	Y (rare)	C	PR PY
Red-necked Grebe	N	C	PR PY
Red-tailed Hawk	Y	C	PR
Red-wing Black Bird	Y	C	PR PY
Ring-billed Gull	Y	O	PR PY
Solitary Sandpiper	Y	C	PR PY
Wild Turkey	Y (rare)	H	PY
Ruby-throated Hummingbird	y	O	PR/PY
Tree Swallow	y	C	PR PY
Trumpeter Swan	N	H	PY
White-breasted Nuthatch	Y	O	PR PY
Wood Duck	Y	H	PY
Long-tailed Duck	N	C	PR PY
Daddy Long-legs	Y	I	PR PY

Beetle	Y	I	PR PY
Bumble Bee	Y	H	PY
Honey Bee	Y	H	PY
Monarch	Y	H	PY
Mourning Cloak	Y	H	PY
Red Admiral	Y	H	PY
Swallowtail	Y	H	PY
Spider	Y	I	PR PY
Beaver	Y	H	PY
Pika	N	H	PY
Yellow-bellied Marmot	N	H	PY
Black Bear	N EX	O	PR
Grizzly Bear	N-EX	O	PR
Coyote	Y	O	PR (PY of wolves)
Gray Wolf	N	C	PR
Red Fox	Y	C	PR PY
Gray Squirrel	Y	H	PY
Cottontail	Y	H	PY
Muskrat	Y	H	PY
Raccoon	Y	O	PR PY
River Otter	N-EX	C	PR
White-tailed deer	Y	H	PY
Plains Bison	N	H	PY
Elk	N-EX	H	PY
Bighorn Sheep	N	H	PY
Snapping Turtle	Y	C	PR
American Alligator	N	C	PR
Chinook salmon	Y	C	PR PY
Rainbow trout	Y	C	PR PY
Atlantic salmon	Y	C	PR PY
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