## Secondary 4 Science and Technology

## Wolves in Yellowstone National Park: Ecology [Chapter 10]

## **Assessing the Problem**

1)	During the 20 <sup>th</sup> century the forests of Yellowstone National Park shrank dramatically. The populations of Willow and Aspen trees were greatly reduced and forests gave way to fields. What are some things that could have caused this disturbance?
2)	In the 1990s ecologists and park rangers came up with the idea of introducing wolves to Yellowstone National Park. Why would they choose to introduce wolves to solve a problem about trees?

How Wolves Change Rivers Video



https://www.youtube.com/watch?v=ysa5OBhXz-Q

## **Analyzing the Results**

3) When the wolves were brought back to Yellowstone they affected several populations. What type of interaction did the wolves have with the following species and what were the consequences?

Species	Type of Interaction (With Wolves)	Trophic Level		Consequences
Elk Large Deer)				
Coyotes				
Willow Trees				
Beavers				
4) How	did introducing wolves	affect the primary produc	tivity of	Yellowstone National Park?