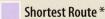
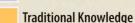
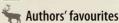


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* The shortest route shading refers to the minimum activities needed to complete a cumulative mapping and charting assignment. This series of activities uses the caribou annual cycle to integrate topics such as natural and human stressors, research, caribou health and management.



Students will be introduced to the concepts of caribou management, who has responsibility and what information managers need to make good decisions.

Should we be concerned? Opener:

Connector: Caribou Management: What are our priorities?

Caribou Management: What do we need to know? Activity 1:

Activity 2: Caribou Management: Who has responsibility?

Reflection: Respecting Caribou: What does it look like?



Unit 2: Have you Heard about the Herds?

Students will understand the



caribou species, five sub-species and concept of herd. They will understand how herds are named and about the value of caribou to northern people.

Have You Heard about the Herds? Opener:

Connector: What's in a Name? Activity 1: Which Herd am I?

Activity 2: Where do they Roam?

Reflection: Traditional Stories about Caribou

Students will learn how changing environmental conditions and natural stressors influence the conditions and natural stressors influence the

behavior and energy balance of caribou throughout their annual cycle.

Opener:

Multiple Stressor Obstacle Course Part 1

Connector: Caribou Annual Cycle

Activity 1: Mapping the Natural Stressors

Activity 2: Climate Change and Traditional Knowledge

Activity 3: Climate Change Population Model

Snow Study Activity 4:

Activity 5: Traditional Knowledge and Natural Cycles of Caribou

Reflection: Assessment of what You Know

Research Opportunitie

Students will gain an appreciation for what a biologist does to study



the caribou throughout the caribou's seasonal life cycle. They will learn about the traditional methods of studying caribou and be asked to think about the ethics of caribou research.

Opener: Collaring Caribou

Connector: Research Cycle

Wildlife Counting Techniques Activity 1:

Activity 2: A Caribou Calving Ground Survey

Activity 3: Composition Surveys

Activity 4: Who Sets Research Priorities?

Traditional Knowledge and Wildlife Management Activity 5:

Reflection: A Research Dilemma

Students will learn about the components of habitat and that the importance of different



habitats can be ranked based on various criteria.

What's That? Habitat! Opener:

Connector: Mapping your own Habitats

Traditional Ways of Assessing Habitat Activity 1:

Activity 2: What's Hot Habitat? Reflection: Competing Values

Students will learn about field sampling techniques to assess caribou condition and about processing samples

in a laboratory. They will learn about parasites and diseases which affect caribou and about safe meat handling. They will understand how the condition of caribou can affect population trends.

Opener: What Causes Population Declines?

Connector: Monitoring Caribou Health

Activity 1: Take it to the Lab

Common Diseases and Parasites Activity 2:

Activity 3: Contaminants

Activity 4: Caribou Anatomy Project

Reflection: Body Condition

Human Interactions

Students will understand that human activity impacts caribou on an individual and population level. Combined stressors, whether human or natural, may be



Opener: What Types of Human Activities Impact Caribou?

Connector: What's Happening Out There?

The Value of Caribou Activity 1:

Activity 2: GIS Scavenger Hunt Activity 3: Mapping Land Use

Google Earth Caribou Animations Activity 4:

Activity 5: Incredible Shrinking Island

Activity 6: Multiple Stressor Obstacle Course Part 2

Reflection: Using Cartoons to Make You Think



Although there are a number of factors that may affect caribou populations the only ones that we have some control over are human activities. Students will understand who is responsible for both harvest management and land use management and the tools available for those managers.

Harvest Management Land Use Management

Opener:	What's That? Habitat!
Connector:	Respectful Hunting Practices
Activity 1:	Why Bulls?
Activity 2:	Who's Responsible?
Activity 3:	Hidden River Herd Challenge
Reflection:	Vote with your Feet

Connector:	Protection and
	Development.
	Where's the balance?
Activity 1:	Parks Scavenger Hunt
Activity 2:	What's in a Land Use Plan?
Activity 3:	Permitting Scenario
Activity 4:	Presentation at Planning Meeting

Unit 9 Case Study Unit 10 Case Study Barren-Ground Caribou

Students will examine the land use management and caribou management issues involved in a decision about mining development in the range of the Beverly caribou herd

Opener: **ENR News Report**

Connector: Where is This Happening?

Activity 1: Co-Management Perspectives

Activity 2: Show what you know

Reflection: This is what I think

Woodland Caribou

Reflection: Vote with your Feet

Students will understand the issues surrounding the expansion of Nahanni National Park Reserve. They will learn how these issues may impact boreal and mountain woodland caribou

Opener: Nahanni Caribou: Medzih

Connector: Nah?a Dehé: Medzih

Activity 1: Alternate Futures

Think - Pair - Share Activity 2: Development in the Nahanni

Activity 3: Prioritizing Values: What is

Important?

Reflection: What Future Do you Choose?