

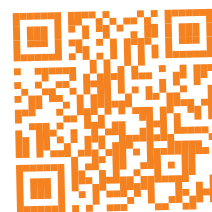


# Meet **BORIS**

**Boris in the Boreal Adventure  
(Northwestern Alberta)**

**Alberta Curriculum  
Grades K-3  
Science &  
Social Studies**

**SCAN THE QR CODE TO  
JOIN THE ADVENTURE**



Travel to the **Forest Capital of Canada 2024-2025:**  
**The Mackenzie Region of Northwest Alberta.**

Join Boris to visit a real pioneer home, an Indigenous Elder, a forester, a woodland supervisor and a wildfire centre.

Hike with Gale and John and discover a real bear den.  
Learn how to make forest crafts. Kayak Machesis Lake and take a helicopter ride.

Learn about planting trees, building houses & more.

## BORIS IN THE BOREAL ADVENTURE – CURRICULUM – GRADES K-3

### Forest Capital of Canada 2024-2025 (the Mackenzie Region)

The Canadian Institute of Forestry (CIF) awarded the Mackenzie Region the title of Forest Capital of Canada (FCC) 2024. The moniker celebrates “regions for their connectivity to the forest.”

The Mackenzie Region (of Northwestern Alberta) rose to the challenge, and as a result, CIF once again awarded the region the FCC title for 2025.

In 2024, the local Forest Capital of Canada 2024-2025 Board (from the Mackenzie Region) created Boris and his adventure to help educate children for years to come about the boreal forest.

Boris’ winter adventure is set to be released in the fall of 2025.



### About: The Mackenzie Region of Northwest Alberta

With a landmass of nearly 80,000 km<sup>2</sup>, Mackenzie County is the largest county in Alberta. Geographically, it’s larger than the province of New Brunswick.

Found in the northwest corner of Alberta, the Mackenzie Region is located entirely in Canada’s boreal zone—which also covers most of Canada—and much the Mackenzie Region is covered by forest.

Over 70% of Mackenzie Region citizens are involved with, rely on, or work in the forest in some capacity (*Source: Canadian Institute of Forestry 2024*).

Important industries in the Mackenzie Region include forestry, energy, agriculture, trapping and tourism.

### Forestry Facts of the Mackenzie Region

**In 2024, more than 18 million trees were planted in the Mackenzie Region** on behalf of our forestry companies by Blue Collar Silviculture and Summit Reforestation & Forest Management Ltd. (*Source: Upper Hay Regional Forests’ Final Harvest Update 2023-24*)

**The Guinness World Record** for the most trees planted by an individual in 24 hours **was set in the Mackenzie Region (near Rainbow Lake)** on July 17, 2021 **by Antoine Moses of Quebec**, who works for Blue Collar Silviculture. **He single-handedly planted 23,060 trees in that 24 hours!**

### VALUES OF TEACHING BORIS’ ADVENTURE IN YOUR CLASSROOM



#### BORIS’ ADVENTURE TAKES PLACE IN NORTHWESTERN ALBERTA

This is an opportunity for children to learn about an area of Canada that does not traditionally get a lot of attention. Yet, it offers so much untouched natural beauty.



#### LOCAL EXPERTS IN BORIS’ ADVENTURE ARE KNOWLEDGEABLE AND FRIENDLY

With help from local teachers, guides, foresters, tree planters and an Elder, to name a few, children in your classroom will learn from a number of interesting people with different backgrounds.

### TOPICS IN STOP 1

Fort Vermilion Heritage Centre,  
Indigenous Peoples,  
Pioneers,  
Nomadic Living,  
Wood Uses,  
Boreal Forest Resources,  
Birch Bark Canoes,  
Fish Scale Art,  
and more.



### SOCIAL STUDIES

### CURRICULUM OUTCOMES

#### KINDERGARTEN

- ✓ Children examine places in communities
- ✓ Children explore self, others and the past through expressions of traditions, cultures and histories

#### GRADE 1

- ✓ Students explore some of the major physical features of our world
- ✓ Students explore cultures and histories of diverse communities

#### GRADE 2

- ✓ Students explore the foundational heritage of First Nations, Francophone and Métis communities

#### GRADE 3

- ✓ Students investigate natural and created features of Alberta
- ✓ Students explore how diverse people contribute to the identity of Alberta
- ✓ Students examine resource use in Alberta
- ✓ Students explore Alberta's identity

SOURCE:

### TOPICS IN STOP 2

Métis Settlement,  
Paddle Prairie,  
Dene Tha' Language Spotlight,  
Teepee,  
Living off the Land,  
Indigenous Traditions,  
Indigenous Language and Knowledge,  
Using Natural Resources from the Boreal Forest,  
and more.



### SOCIAL STUDIES

### CURRICULUM OUTCOMES

#### KINDERGARTEN

- ✓ Children examine places in communities
- ✓ Children explore self, others, and the past through expressions of traditions, cultures, and histories

#### GRADE 1

- ✓ Students explore cultures and histories of diverse communities

#### GRADE 2

- ✓ Students explore the foundational heritage of First Nations, Francophone and Métis communities

#### GRADE 3

- ✓ Students investigate natural and created features of Alberta
- ✓ Students explore how diverse people contribute to the identity of Alberta
- ✓ Students examine resource use in Alberta
- ✓ Students explore Alberta's identity

### SCIENCE

### CURRICULUM OUTCOMES

#### GRADE 3

- ✓ Students investigate and analyze how materials have the potential to change

SOURCE:



## BORIS IN THE BOREAL ADVENTURE – CURRICULUM – GRADES K-3

### TOPICS IN STOP 4

Tree Measurements,  
Forester Career,  
Soils and Plants of Boreal Forest,  
Types of Trees (Deciduous and Coniferous),  
Pests and Diseases

### SCIENCE

### CURRICULUM OUTCOMES



#### KINDERGARTEN

- ✓ Children examine and describe surrounding environments

#### GRADE 1

- ✓ Students analyze properties of objects and investigate how they can be changed
- ✓ Students investigate and examine needs of plants and animals

#### GRADE 2

- ✓ Students investigate Earth, its landforms, its bodies of water, and its relationship to the sun
- ✓ Students investigate the growth and development of plants and animals and consider their relationship to humans

#### GRADE 3

- ✓ Students analyze changes in Earth's surface and explain how its layers hold stories of the past
  - ▶ Specifically—soil includes living plants and animals, decaying plants and animals, rock particles, air and water
  - ▶ Plant and animal activities can change Earth's surface such as parasite infestation e.g. mountain pine beetle
- ✓ Students analyze and describe how plants and animals interact with each other and within environments

SOURCE:



*"Boris fits well with curriculum outcomes. This is a cool way to expand students' knowledge, and I recommend it to my fellow staff members! It has valuable information."*

*Fort Vermilion School Division Elementary Teacher Shelby Roberts*

### TOPICS IN STOP 5

Machesis Lake,  
Bear Tracks and Bear Dens,  
Kayaking,  
Bodies of Water,  
Ecosystems,  
Forest Animals,  
Insects and Plants,  
Plant Identification and Uses,  
Creating “Ant Art”,  
and Birch Bark Uses



### SCIENCE

### CURRICULUM OUTCOMES

#### KINDERGARTEN

- ✓ Children examine properties of objects
- ✓ Children explore movement of objects, humans, and other animals
- ✓ Children examine and describe surrounding environments

#### GRADE 1

- ✓ Students analyze properties of objects and investigate how they can be changed
- ✓ Students investigate directions, pathway and speed of moving objects and animals
- ✓ Students analyze environments and investigate interactions and changes
- ✓ Students investigate and examine needs of plants and animals

#### GRADE 2

- ✓ Students investigate properties of materials and relate them to a purpose
- ✓ Students investigate Earth, its landforms, its bodies of water and its relationship to the sun
- ✓ Students investigate the growth and development of plants and animals and consider their relationships to humans

#### GRADE 3

- ✓ Students investigate and analyze how materials have the potential to be changed
- ✓ Students investigate and explain how forces affect the movement of objects
- ✓ Students analyze changes in Earth's surface and explain how its layers hold stories of the past
- ✓ Students analyze and describe how plants and animals interact with each other and within environments

SOURCE:

### TOPICS IN STOP 6

Natural Resources,  
Wood Products Uses (Building Homes),  
Different Wood Uses,  
Varieties of Wood (OSB, Plywood, Deciduous Wood),  
and Careers

### SCIENCE

### CURRICULUM OUTCOMES



#### KINDERGARTEN

- ✓ Children examine and describe surrounding environments

#### GRADE 2

- ✓ Students investigate properties of materials and relate them to a purpose

#### GRADE 3

- ✓ Students investigate and analyze how materials have the potential to be changed

SOURCE:

## BORIS IN THE BOREAL ADVENTURE – CURRICULUM – GRADES K-3

### TOPICS IN STOP 7

Tree Planting,  
Environmental Impacts,  
Ecosystems,  
Forestry,  
Forest Growth,  
and Career of Tree Planters



### SCIENCE

#### CURRICULUM OUTCOMES

##### KINDERGARTEN

- ✓ Children examine and describe surrounding environments

##### GRADE 1

- ✓ Students analyze environments and investigate interactions and changes
- ✓ Students investigate and examine needs of plants and animals

##### GRADE 2

- ✓ Students investigate Earth, its landforms, its bodies of water and its relationship to the Sun
- ✓ Students investigate the growth and development of plants and animals and consider their relationship to humans

##### GRADE 3

- ✓ Students analyze changes in Earth's surface and explain how its layers hold stories of the past
- ✓ Students analyze and describe how plants and animals interact with each other and within environments
- ✓ Students explore Alberta's identity

### SOCIAL STUDIES

#### CURRICULUM OUTCOMES

##### GRADE 1

- ✓ Students explore some of the major physical features of our world

SOURCE:



### TOPICS IN STOP 8\*

Visiting a Wildfire Centre,  
Exploring a Tanker Base,  
Going on Helicopter Ride,  
Dozer and Machines Uses, and  
Gear Warehouse and Equipment used to Fight Wildfire.



## SCIENCE

### CURRICULUM OUTCOMES

#### KINDERGARTEN

- ✓ Children explore movement of objects, humans and animals
- ✓ Children examine and describe surrounding environments

#### GRADE 1

- ✓ Students analyze environments and investigate interactions and changes

#### GRADE 2

- ✓ Students investigate properties of materials and relate them to a purpose
- ✓ Students investigate the growth and development of plants and animals and consider their relationship to humans

#### GRADE 3

- ✓ Students analyze changes in Earth's surface and explain how its layers hold stories of the past

## SOCIAL STUDIES

### CURRICULUM OUTCOMES

#### KINDERGARTEN

- ✓ Children examine places in communities
- ✓ Children explain how cooperation contributes to achieving common goals

#### GRADE 1

- ✓ Students explore major physical features in our world
- ✓ Students investigate roles and responsibilities

*\*This stop has a career focus connected to forestry*

SOURCE:



### TOPICS IN STOP 9

Environment,  
Life Cycles,  
Wildfire Affects,  
Earth Systems,  
Natural Systems,  
Forestry Career,  
and Use of Dozer Lines



### SCIENCE

### CURRICULUM OUTCOMES

#### KINDERGARTEN

- ✓ Children explore movement of objects, humans, and other animals
- ✓ Children examine and describe surrounding environments

#### GRADE 1

- ✓ Students analyze environments and investigate interactions and changes

#### GRADE 2

- ✓ Students investigate the growth and development of plants and animals and consider their relationship to humans

#### GRADE 3

- ✓ Students analyze changes in Earth's surface and explain how its layers hold stories of the past

### SOCIAL STUDIES

### CURRICULUM OUTCOMES

#### GRADE 3

- ✓ Students investigate natural and created features of Alberta

SOURCE: