

Bachelor of Education (Elementary) & Bachelor of Education (Secondary) STEM Lesson Plan

Lesson Title:	"I Wonder" and Observations at the Park	Lesson #	5 (from an 8 lesson unit)	Date:	April 9, 2002
Name:	Melissa Green	Subject:	Science	Grade(s):	4

Rationale:

This lesson allows students to reflect on what they have already learned in the unit and engage in the creation of their own individual "I Wonders". Students then will have the opportunity to engage some of their senses in a time of observation at McArthur Island. These observations connect to previous lessons taught and will also connect to upcoming lessons. Inviting students to pause, observe and reflect is an important skill and activity to engage in when learning. Asking questions and wondering out loud, and to themselves, creates opportunities for deeper learning and inquiry.

Core Competencies:

Big Ideas (Understand)

All living things sense and respond to their environment.

Learning Standards

(DO)	(KNOW)
Learning Standards - Curricular Competencies	Learning Standards - Content
• CC1 - Demonstrate curiosity about the natural world	• C1 - Sensing and responding: animals, plants
• CC2 - Observe objects and events in familiar contexts	
CC4 - Make predictions based on prior knowledge	

Instructional Objectives & Assessment

Instructional Objectives (students will be able to)	Assessment
• TSWBAT communicate their "I wonders" about the	• Formative <i>for</i> Learning
natural world around them.	What: Students will share their "I wonders".
	How: Students will share their "I wonder" with their

	seat partner and then with the class. Students will be learning from one another.
• TSWBAT document their observations at the park through writing and/or drawing.	 Formative as Learning What: Students will record their observations in their "observation books" How: Observation books will be collected and reviewed by the teacher at the end of the lesson.

Prerequisite Concepts and Skills:

• Knowledge of classroom expected behaviours, specifically when leaving school grounds, including safety.

Indigenous Connections/ First Peoples Principles of Learning:

• Learning is holistic, reflexive, reflective, experiential, and relational (focused on connectedness, on reciprocal relationships, and a sense of place).

This lesson incorporates this First Peoples Principle of Learning as students will be experiencing the outdoors and local habitats that they will be learning about. This lesson is geared towards having the students connect their learning to the local biome of Kamloops, which will provide students with a sense of place. The students will be relating their learning to their personal experiences with the outdoors, making this lesson both reflective and relational.

Universal Design for Learning (UDL):

- Instructions will be provided both verbally and written on the board
- Visual learners will connect with the opportunties to obervers the natural world outside
- Studnets who learn best while they are moving will benefit from this unit as there are opportunites for moving outside
- The teacher will use a variety of assessments in order to reach each student.

Differentiate Instruction (DI):

- Students will have the option of where to work in the classroom, flexible seating
- Body and brain breaks alongside fidget tools will be available in the classroom and are already known to students
- Headphones will be available for students who require
- Students who are struggling will be given extra support by the EA or teacher, the activity requirements will be reduced to meet their individual needs where necessary.
- Inside outside learning learning is not limited to the classroom, ie: visit to McArthur Island

Materials and Resources

- Photos for the "hook" either on projector or printed as full page images (depending on classroom resources)
- Sticky notes for "I Wonders"
- Observation books
- Extra writing utensils for outdoor learning
- Clipboards
- Ball

Lesson Activities:

Teacher Activities	Student Activities	Time
Introduction (anticipatory set – "HOOK"):		
• Show imagines of the local/natural environment	• Students raise their hand if they have an	5 min
and invite students, as a class, to create an "I	"I wonder" to share and speak when	
wonder" for each image.	called upon.	
Body:		

• Remind students that we are going to McArthur Island today. Invite students to work with their seat partner and each write on a sticky note one "I wonder" about the environment that we might see at McArthur Island and the animals and birds that we might see there.	• Students work with their seat partner to brainstorm and each write an "I wonder" on their sticky note.	5 min
C C	• Students stor and liston for instructions	7 min
 Ring the chime. Invite students to share their "I wonder" with the class while they put it on the white board in the designated area when their name is called as it is pulled out of the jar of popsicle sticks with student names. 	 Students stop and listen for instructions. Students share their "I wonder" as their name is called and place it on the board. 	/ 11111
• Share with students that we will be going to McArthur Island as a class and will stop at three different locations to find a spot by ourselves and pause to look and listen and record observations about what they hear, see, discover, and continue to wonder about.	• Students are listening	
• Ask students what the expectations are when we are at McArthur Island. Expand and add to expectations that students share to make sure all are covered.	• Students raise their hand to share an expectation and speak when called upon	3 min
• Have students grab a pencil and put on their outdoor clothes as they are handed a clipboard with an observation book and then line up at the door.	• When given a clipboard and observation book students get their pencil and put on their outdoor clothes and then line up.	4 min
• Guide students to McArthur Island with a second teacher at the end of the line and an EA around the middle.	• Students follow the teacher in a single file line.	40 min (for whole
• Settle at the first chosen area of the park (grasslands) and invite students to find a spot on their own and to pause and listen and look and record their observations and wonderings. Taking note of the things they notice that connect to what they've learned over the past week about biomes and the connectedness of life and nature.	• Students find a place to sit and observe.	McArthur Island trip)
• After ten minutes or so, ring the chime and have students line up, walk to the next observation area (by the river).	• Students give attention to teacher and then line up.	
• Repeat previous steps. After ten minutes or so, ring the chime and have students line up.	• Students find a place to sit and observe. Then give attention to teacher and line up.	
• Head to the playground and allow for ten minutes of free play!	• Students play!!	
 Ring the chime, have students gather their belongings and line up. 	• Students freeze, collect belongings and line up	
Head back to the school.	• Students follow teacher	
Closure:		
• Before entering the school, gather in a circle on the field near the entrance. A ball is passed in a random order, student to student. When a student receives the ball they share one thing they observed while at McArthur Island and one thing	• Students gather in a circle and share as they receive the ball. Students sit down after they've shared.	10 min
they still wonder about. Students sit down after they've shared.		

• Thank the class for their work!

Organizational Strategies:

- Chime to gain student attention
- Student names on popsicle sticks for calling upon students
- Have sticky notes for "I wonders" on desks before lesson begins
- Hand out observation supplies as a way to having students get ready to line up to head to McArthur Island

Proactive, Positive Classroom Learning Environment Strategies:

- Teacher will move around the room during the "I Wonders" and provide encouragement and support to students.
- Students who are one task will be praised.
- Challenges will be dealt with in a respectful manner and not publically wherever possible.
- Expectations around behaviour will be reviewed before the trip to McArthur Island.
- Wait seven seconds after asking a question to allow time for students to process and think about their answer or question.
- Teacher will spend more time near students who are distracting one another or off task and provide ongoing support. If necessary, students who are distracting one another will be moved to different work areas.

Extensions:

This lesson could be extended to include a focus on Indigenous plants and animals and include having an Elder or other speaker join the lesson. This lesson will be expanded upon in upcoming lessons within the unit.

Reflections (if necessary, continue on separate sheet):

N/A