

 <p>CANADIAN WILDLIFE FEDERATION FÉDÉRATION CANADIENNE DE LA FAUNE</p> <p>www.cwf-fcf.org</p>	<h2>Surface Water Lesson Plan</h2>
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Date:
Grade: Math 7
Topic: Estimating Products

Time: 1 Period (45 minutes)

General Learning Objective: *Students will...*

- Apply arithmetic operations on decimals and integers, and illustrate their use in solving problems

Specific Learning Objectives: *Students will...*

- Add, subtract, multiply and divide decimals (for more than 2-digit divisors or multipliers, the use of technology is expected). [E, PS, T]
- Add, subtract, multiply and divide integers concretely, pictorially and symbolically. [PS, V]

Learner Objectives: Students will...

- Describe what a product is
- Compare and contrast exact and estimate product questions
- Solve problems involving real-world applications of environmental issues using exact and estimate product answers

Materials:

Rivers to Oceans Episode – Surface Water	Calculator
Laptops or access to computers for each student if available	Empty bottle 1 Litre in size
Math Texts	

Organization to Achieve the Objectives

	Time	Teaching Activities	Student Learning & Activities	Modification
Introduce / Set	5 min	Ask a motivating question? • Students will interpret picture with quote and provide feedback about the relationship between attitude and success • Introduce Water theme – students will communicate in what ways is math used to study water?	➤ Assess and communicate opinions	- Read question out loud



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Surface Water Lesson Plan

	Time	Teaching Activities	Student Learning & Activities	Modification
Body (in steps) Body (in steps)	40 min	<ul style="list-style-type: none"> Students will identify what a product is? Students will compare and contrast an exact number and an estimate? Using water as a central theme, students will apply math concepts and application to everyday global warming and water issues Students will solve questions and word problems involving product estimates and exact product answers Students will learn about environmental tips to help make a difference in global warming and water conservation 	<ul style="list-style-type: none"> Identify and record what a product is Solve word problems and provide answer whether it is exact or an estimate Appreciate and consider environmental tips 	<ul style="list-style-type: none"> -Write questions and definitions on board -Pair students up based on skill and leadership -Provide blue sheet with questions -Have each student complete questions on laptop with smart lesson open. They can save and submit answers and work.
Closure	5 min	<ul style="list-style-type: none"> Pose a question as a review and ask what the product of the question is? Ask students the rule for estimating products? 		
Anchor Activities	Multiplication flash cards Homework practice sheet			
Assess & Evaluate	Summative -Understanding of questions through the reflection of correct answers homework questions		Formative - Questioning/checking for understanding	