

**Lesson #5: Beginning of Action Project**

*Time required: One to Two 60-75 minute class periods depending on class understanding and speed*

<b>Topic Opener</b>	
Topic:	Field Study Results and Explanations
Program of Study Information	<p>Program of Study: Career and Technology Studies Natural Resources Environmental Stewardship Strand</p> <p>Relevant Course(s): ENS 3040: Energy and the Environment</p> <p>Curricular Outcomes:</p> <p><i>Students will:</i></p> <ol style="list-style-type: none"> <li><i>1. Describe the social, economic and environmental significance of energy development (Outcomes 1.1-1.4)</i></li> <li><i>3. Plan and implement a group action campaign that fosters environmental awareness, energy conservation and energy efficiency; e.g., class, school, community (Outcomes 3.1-3.5)</i></li> <li><i>4. Demonstrate basic competencies (Outcomes 4.1-4.3)</i></li> </ol> <p>ENS 3050: Environmental Politics</p> <p>Curricular Outcomes:</p> <p><i>Students will:</i></p> <ol style="list-style-type: none"> <li><i>2. analyze challenges in developing, influencing and implementing environmental policies</i></li> </ol> <p>ENS 3910: Project D</p>
Required Materials	<ul style="list-style-type: none"> <li>• <a href="#">Student Scavenger Hunt Sheets</a> (Not needed but will be helpful to guide student research)</li> <li>• <a href="#">Scavenger Hunt Teacher's Key</a> (see note above)</li> <li>• Computers for Student Research</li> </ul>
Type of lesson	<p>Group Work</p> <p>Research</p>

Getting Started	
Topic opener “hooks”	<p>Intro/ Hook ideas:</p> <p>There is no particular hook for this lesson, though it will be helpful to remind students of the task that they are set to complete and the goals for today’s lesson by referring to the task page of the WebQuest (<a href="https://seedsconnections.org/individual-or-group-task">https://seedsconnections.org/individual-or-group-task</a> )</p> <p>“The Alberta Government is interested in developing a campaign or plan to improve the water quality in your watershed. They have hired your team of Hydrologists to research the various factors contributing to water quality in your watershed and to develop an action plan targeted at, what your team deems to be, the most impactful activity on the study site. Your team will create a presentation that:</p> <ul style="list-style-type: none"> <li>• highlights the key findings from your aquatic field study</li> <li>• identifies and explains the most impactful activities on this site</li> <li>• outlines a plan for addressing the most impactful activities in a positive way that includes a timeline for implementation where possible</li> <li>• has a list of references used for research”</li> </ul> <p>As this is a multi-day project with a few tasks to hand in, it would be helpful to give students a benchmark for what they are to complete each day at the beginning of each lesson as well. This is going to change from class to class depending on your students.</p>
Lesson Sketch	
Outline	<ol style="list-style-type: none"> <li>1. Begin Action Project <ol style="list-style-type: none"> <li>a. Restate the purpose of the project as outlined above.</li> <li>b. Have students login to computers and direct them to the WebQuest site: <a href="https://seedsconnections.org/webquest-student-information">https://seedsconnections.org/webquest-student-information</a></li> <li>c. Show students where they can open and save the PowerPoint document [see SAMPLE Presentation <i>Wading in for Water</i> CTS Project: (<a href="https://seedsconnections.org/resources">https://seedsconnections.org/resources</a> )]that contains all of the information that they need to include in their presentation. Note: They do not need to use the format but the presentation does contain all of the information that is expected to be covered in their action project</li> <li>d. Use this document to set a goal for the lesson. Suggest completing the following pages from the SAMPLE Presentation and then starting the research on what the impacts of their chosen activity are:</li> </ol> </li> </ol>

	<ul style="list-style-type: none"><li>i) Title Page</li><li>ii) Project Introduction</li><li>iii) Field Study Data</li><li>iv) Explanation of Field Study Results</li><li>v) Upstream Activities</li></ul> <p>Sample Presentation: <a href="https://seedsconnections.org/resources">https://seedsconnections.org/resources</a></p>
Closing ideas	Check in at the end of class for clarification and resetting expectations if they need more time. Time required to complete this task will vary greatly depending on grade level, understanding and speed of students.

Notes: