

Developing Natural Resources in Alberta

CTF Challenge Idea

Challenge	Developing Natural Resources in Alberta		
Essential Question	How can we balance the needs of the environment while developing our natural resources?	Estimated Time	25 hrs.
All CTF learning outcomes should be addressed in each CTF challenge.			

Challenge Description	As our world is ever-changing, Alberta is experiencing monumental pressures and shifts in its energy sector. In this project, students will choose which perspective they would like to take, thinking about how our province is connected to natural resources. Students will take on the role of an Alberta energy company, a community organization, an environmental advocacy group or a government committee studying energy use. They will then research and prepare a presentation about how much resource development will be allowed.		
Scenario	A local town in transition sits on a bed of natural resources (oil, natural gas and coal). The town council is going to be hosting a town hall meeting to hear all of the perspectives on how to develop these resources and on the effects this development will have on the town. It is your job to take on the role of an Alberta energy company, a community organization, an environmental advocacy group or a government committee studying energy use and develop a presentation to the town council and the rest of the town hall attendees. Your presentation should answer the essential question in this challenge and provide direction for the town council on how to move forward. Topics to consider include sustainability, renewable and non-renewable resources, alternative energy, as well as the economic, social, political and environmental impacts your recommendations and strategy will have on the town and the province.		
Occupational Areas	<p>BUSINESS</p> <p><input type="checkbox"/> Computing Science <input type="checkbox"/> Financial Management <input type="checkbox"/> Management & Marketing</p> <p><input type="checkbox"/> Enterprise & Innovation <input type="checkbox"/> Information Processing <input type="checkbox"/> Networking</p> <p>COMMUNICATION</p> <p><input checked="" type="checkbox"/> Communication Technology <input type="checkbox"/> Design Studies <input type="checkbox"/> Fashion Studies</p> <p>HUMAN SERVICES</p> <p><input type="checkbox"/> Community Care Services <input type="checkbox"/> Foods <input type="checkbox"/> Legal Studies</p> <p><input type="checkbox"/> Cosmetology <input type="checkbox"/> Health Care Services <input type="checkbox"/> Recreation Leadership</p> <p><input type="checkbox"/> Esthetics <input type="checkbox"/> Human & Social Services <input type="checkbox"/> Tourism</p> <p>RESOURCES</p> <p><input type="checkbox"/> Agriculture <input type="checkbox"/> Forestry <input type="checkbox"/> Wildlife</p> <p><input checked="" type="checkbox"/> Environmental Stewardship <input checked="" type="checkbox"/> Primary Resources</p> <p>TECHNOLOGY</p> <p><input type="checkbox"/> Construction <input type="checkbox"/> Fabrication <input type="checkbox"/> Mechanics</p> <p><input type="checkbox"/> Electro-Technologies <input type="checkbox"/> Logistics</p>		
Skills Related to Occupational Areas	<p>Communication Technology</p> <ul style="list-style-type: none"> • Selecting appropriate methods and tools to communicate a message • Tailoring a message for a specific audience • Understanding copyright restrictions and permissions and putting them into practice • Demonstrating good health and safety practices (posture, ergonomic design) • Ensuring safety of equipment, software, supplies and personal work <p>Environmental Stewardship</p> <ul style="list-style-type: none"> • Understanding local management and conservation of resources 		

	<p>Primary Resources</p> <ul style="list-style-type: none"> • Having a basic understanding of the nature and extent of Alberta’s natural resources • Having a basic understanding of recovery and production of non-renewable hydrocarbon resources 												
<p>Safety and/or Environmental Concerns</p>	<p>Effective digital citizenship and ergonomic practices</p> <p>Remember to follow your school’s and/or district’s safety requirements at all times.</p>												
<p>Grade</p>	<p><input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input checked="" type="checkbox"/> 9</p>												
<p>Interdisciplinary Learning Opportunities</p>	<p>SUBJECTS</p> <table border="0"> <tr> <td><input checked="" type="checkbox"/> ELA</td> <td><input type="checkbox"/> Health and Life Skills</td> <td><input type="checkbox"/> Religious Education</td> </tr> <tr> <td><input type="checkbox"/> Fine Arts</td> <td><input type="checkbox"/> Mathematics</td> <td><input checked="" type="checkbox"/> Sciences</td> </tr> <tr> <td><input type="checkbox"/> French Language Arts</td> <td><input type="checkbox"/> Outdoor Education</td> <td><input checked="" type="checkbox"/> Social Studies</td> </tr> <tr> <td><input type="checkbox"/> French Second Language</td> <td><input type="checkbox"/> Physical Education</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> ELA	<input type="checkbox"/> Health and Life Skills	<input type="checkbox"/> Religious Education	<input type="checkbox"/> Fine Arts	<input type="checkbox"/> Mathematics	<input checked="" type="checkbox"/> Sciences	<input type="checkbox"/> French Language Arts	<input type="checkbox"/> Outdoor Education	<input checked="" type="checkbox"/> Social Studies	<input type="checkbox"/> French Second Language	<input type="checkbox"/> Physical Education	
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