CTF Challenge Idea Generation

Challenge	Home Energy Audit and Social Awareness
Essential Question	How can you lower your home energy usage and then inform others about the importance of conserving energy? Estimated Time
All CTF learning outcomes should be addressed in each CTF challenge.	
Challenge Description	As we continue to consume energy in Alberta, the costs of the energy are continually increasing. This is affecting the cost of living in our homes. Students can make small changes in their homes that will drastically decrease the amount of their home energy bills. Through this project, students will learn how to perform a home energy audit, calculate the differences in energy efficient products, and then create an awareness campaign (e.g., print, wiki, video/audio podcast) in order to inform their peers on how to save energy.
Scenario	The cost of living in a house in Alberta is dictated by the cost of utilities in the home. It is important to know what your actual energy costs are so you can determine how much your monthly bill will be. By following simple conservation tips you will be able to calculate and predict the savings in a monthly bill. After taking steps to save energy, you will then create some sort of awareness campaign to inform your peers about how to actually save money at home.
Occupational Areas	BUSINESS ☐ Computing Science ☐ Financial Management ☐ Management & Management & Marketing ☐ Information Processing ☐ Networking COMMUNICATION ☐ Communication Technology ☐ Design Studies ☐ Fashion Studies
	HUMAN SERVICES Community Care Services Health Care Services Health Care Services Human & Social Services Tourism
	RESOURCES ☐ Agriculture ☐ Forestry ☐ Wildlife ☐ Environmental Stewardship ☐ Primary Resources
	TECHNOLOGY ☐ Construction ☐ Fabrication ☐ Mechanics ☐ Electro-Technologies ☐ Logistics
Safety and/or Environmental Concerns	Remember to follow your school's and/or district's safety requirements at all times.
Grade	□ 5 □ 6 □ 7 □ 8 ⊠ 9
Interdisciplinary Learning Opportunities	SUBJECTS □ ELA □ Health and Life Skills □ Religious Education □ Fine Arts □ Mathematics □ Sciences □ French Language Arts □ Outdoor Education □ Social Studies □ French Second Language □ Physical Education