**GRADE 6 PBL**

**Science Big Idea:** Multicellular organisms rely on internal systems to survive, reproduce, and interact with their environment

**Math Big Idea:** Data from the results of an experiment can be used to predict the theoretical probability of an event and to compare and interpret.

**Math Big Idea:** Linear relations can be identified and represented using expressions with variables and line graphs and can be used to form generalizations.

**Social Studies Big Idea**: Media sources can both positively and negatively affect our understanding of important events and issues.

**ELA Big Idea**: Questioning what we hear, read and view contributes to our ability to be educated and engaged citizens.

**The Canadian government is concerned about the rising rates of cardiac disease in young people. You have been hired to determine if the concern is valid, investigate what issues are causing the rise in disease, and what can be done about it.**

1. Measure the pulse of each person in the class.
2. Chart/graph the results using a spreadsheet, without using names. Compare the chart/graph to national numbers and medical probability charts for heart disease.
3. What are your findings? How do these compare to medical estimates of healthy heart rates for people your age? What is the likelihood of heart disease developing in members of your class?
4. What issues/activities impact heart health? (Research may be required.)
5. How does media, including promotions from the food, beauty, and health industry, influence heart health in young people?
6. What changes should the individuals make to improve the group's heart health?
7. What role should government play in the changes?

Present your findings and proposal to the panel of experts (teacher/parent/student rep).