# Lesson Plan - SPH3U

## Unit – Electricity and Magnetism

### Topic – Culminating Task

#### Day # 17-18

#### Curriculum Expectation(s) and Learning Goal(s) for the Lesson

a) **Expectations:** *(List 1-3 specific expectations from the Ontario Curriculum. Be realistic about how much you can accomplish in one lesson.)*

- construct a prototype of a device that uses the principles of electromagnetism (e.g., an electric bell, loudspeaker, ammeter, electric motor, electric generator), and test and refine their device

b) **Learning Goal(s):** *(In your own words, what do you want the students to have learned by the end of the lesson? How will you know what they have learned the information?)*

Students will:
- Design and build a generator (using simple household materials or those distributed in class) that runs off of a renewable energy source.

#### Learning Environment and Materials

*(Describe the set up of the classroom, safety considerations, individual and/or group work considerations, facilitating smooth and safe transitions)*

Desks are set up in columns and in each column has 2 desks side by side. At the front there is a projector with white board, SMART board on the side of the class. Lab desks surround the columns of desks. J.B. is visually impaired and is seated closer to the front and there is a seating plan to enforce this and others that do not focus well with specific individuals. The seating plan is mostly alphabetical.

#### Overview of the Lesson

*(Write the information that you will provide to the students as the intro to the lesson. This may be written on chart paper, white/blackboard, Smart board. This information will inform the students/EAs about what to expect during the lesson.)*

**Intro:**
- Overview of Culminating Task
- Expectations from the project

**Body:**
- Initial planning and brainstorming within groups
- Work period to complete task

**Consolidation:**
- Cleanup work stations
- Assemble finished product

**Assessment/Evaluation:**
- Culminating Task will be evaluated using the rubric with the project description file