SNC1D Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ASSIGNMENT: Applications of Static Electricity Presentations**

**BACKGROUND**: A build-up of static electricity can be both useful and a problem as can be shown by the following examples.

**TOPICS:**

# http://cliparts.co/cliparts/Lid/jRo/LidjRob4T.jpg1. Pollution/ electrostatic precipitator

# 2. Painting with charges

# 3. Lightning

# 4. Lightning rods

# 5. Fabric Softener sheets

# 6. Photocopiers

# 7. Cell phones and car radios

8. Other (must be approved by Mr Seguin before proceeding)

**INSTRUCTIONS**

1. You will research one of the topics above.
2. You will prepare a “**mini-lesson**” in google slides
3. Open your shared Google Folder 4.SNC.Last name and create a new Google Slides. (click the + New button on the upper left of the page) Remember, anything in that folder I will have access to and will be able to mark.
4. Your presentation **must include**:
   1. **Title Page**
   2. **What**: describe the example/topic/technology
   3. **When and Where**: does this occur/would it be used
   4. **Electricity theory**: Explain how this relates to what has been learned in class about static electricity (ex. Charging by friction, contact, induction, insulators, conductors)
   5. **Diagram:** A picture, illustration or diagram (it must show charges!)
   6. **Video:** a video of how this technology works and where it may be found.

**TIPS**

* Include relevant **visual aids** (pictures) in your slide show
* The video should be short. If it’s long, please indicate the relevant parts with time indications.

**Assessment Checklist:**

* You will be evaluated on the following:
* **Slides** 
  + - * Contains all key headings
      * Organized in a logical fashion
      * Information is clear and to the point
      * Slides are visually appealing and include pictures/diagrams
* **Content/ Knowledge** 
  + - * Information is correct
      * Adequate amount of depth and detail
      * Clear explanation using electrostatic theory learned in class

**APPLICATIONS OF STATIC ELECTRICTY ASSIGNMENT RUBRIC**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Level 1** | **Level 2** | **Level 3** | **Level 4** |
| E1.1 analyse the design of a technological device that improves its electrical efficiency or protects other devices by using or controlling static electricity (e.g., paint sprayers, photocopiers, lightning rods, grounding wires) [AI, C] | -Slides are not well organized, clear or visually appealing  -Content is incorrect, does not show evidence of research or understanding | -Slides are somewhat organized, clear and visually appealing  -Content is somewhat correct, shows evidence of some research and understanding and is somewhat linked to class material | -Slides are well organized, clear and visually appealing  -Content is correct, shows evidence of research and understanding and is linked to class material | -Slides are very well organized, clear and visually appealing  -Content is correct, shows evidence of thorough research and in depth understanding and is linked to class material |