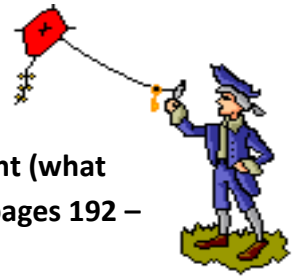


## Static Electricity Demonstration Assignment Rubric

**Learning Target: Identify evidence of the presence of electrons and static electricity (electron transfer).**



**Use drawings with captions to prepare a comprehensive entry that narrates the event (what happened) and the scientific explanation (why it happened). You will have to read pages 192 – 196 to do this successfully. Specific references from the text must be included.**

### Van de Graaf Generator

1. Drawing/labels/captions of Van de Graaff generator.
  - a. Identify input energy source /energy transformations of the Van de Graaff
  - b. Identify important parts of the generator / what they do
  - c. Color is used for clarification.
2. Drawing/description of evidence of an electron field surrounding the generator (before the “zap”)
3. Drawing/description of evidence of static electricity (the “zap”)
4. Scientific explanations of how / why the electrons accumulate and transfer.

### Tesla Coil

1. Drawing/labels/captions of Tesla Coil - Identify current electricity as the input / how the static electricity is built up
2. Drawing/description of evidence of an electron field surrounding the tip of the coil – metal tip and light bulb
3. Drawing/description of evidence of static electricity
4. Scientific explanations of how / why the electrons accumulate and transfer.

4	3	2	1
More than 30 expectations are covered	25-30 total expectations are covered.	15-24 total expectations covered.	1-15 total expectations covered.
AND			
4 advanced topics are explained.			