**HOUSEHOLD ELECTRICAL ACTIVITY**

**Do not print anything. You will email this to david.lurie@clarencevilleschools.org when it is complete.**

Answer the following questions, in a Word doc, powerpoint, Presi, Google Doc, or other format.

SAVE the file with your last name, and the word "electrical" in the file name. That way I don't end up with a bunch of mystery files called "Doc 1".

Good example file: Lurie Electrical 5-29-15 (dashes, no slashes allowed in file names)

**Note, you may paste in diagrams from any source, but you must paste in the URL of the site from which you copied the diagram.**

QUESTIONS:

1. What is the benefit of using alternating current in our houses? Name at least two benefits.
2. What is the function of transformer boxes outside houses, either up on a pole or down on the ground?
3. What is a ground wire? What color is it? How does it keep you safe?
4. What are the similarities and differences between fuses and circuit breakers? Include pictures of each.
5. What is the absolutely most important rule to follow if you install a light fixture or change a switch in your house?
6. When installing a light fixture, what is the simple rule for wiring it?
7. Why do cars use fuses and circuit breakers?
8. What is one obvious sign that your car has "blown a fuse"? Where is the fuse box on a car usually found? (Research your vehicle if possible.)
9. Check out the "Traveler System" Diagrams from this site: http://en.wikipedia.org/wiki/Multiway\_switching

What do these diagrams show? Where in your house might it be useful to have multiple switches operating one bulb?

1. What things are now required to have their own dedicated circuits in newly built houses, or in houses which are remodeled and "brought up to code"?