

## Electricity Topic 1 Worksheet - Static

1) On a separate piece of paper define the following terms:

- Unbalanced-Charges
- Insulators
- Discharge
- Static-Electricity
- Conductors
- Neutralized
- Law-Of-Charges
- Superconductors
- Grounding

2) List the three "Laws of Charges." For each law, give an example of the law being applied.

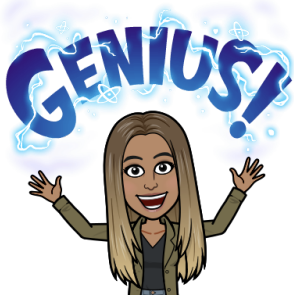
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4) Using the Video link below describe in your own words what is static electricity

<https://www.youtube.com/watch?v=yc2-363MIQs>



5) Draw the charges for the following terms. The first one has been done for you.

Neutral Charges	Positive Charges	Negative Charges
+ + - + - - - - + - + +		

6) Describe 3 examples of static electricity.

7) Describe 3 methods to reduce static electricity.

8) Describe the difference between a negatively charged object and a positively charged object.

9) Why is the phrase "unbalanced charges" a more accurate way of describing the phenomena we often refer to as "static electricity"?

10) Many gas stations have these signs! Explain the dangers of static electricity at a gas station. Also explain why touching the sign will prevent a build up of static electricity. (hint: if you are stuck the video link below may help)

<https://www.youtube.com/watch?v=VjrkwxMhc4s>



11) How do charged conductors and insulators differ from each other? Name two examples of conductors and two examples of insulators

12) Thinking Critically What do you think would happen if you rubbed two identical objects together? Would they attract each other, repel each other, or neither attract nor repel each other? Why?