**FPS – Static Electricity Notes**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_

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| ***Static Electricity - Notes*** |
| 1. ***What is static electricity?*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. ***There are two kinds of charges. Rub the plastic ruler and tear off a small piece of paper. What happens?***

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| 1. ***Where do charges come from?***

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| 1. ***Where do charges come from?*** Rubbing materials does \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ electric charges. It just \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons from one material to another.

 When a balloon rubs a piece of wool… |
| 1. ***Insulators and Conductors***

***Insulators 🡪******Conductors 🡪***  |
| 1. Induction 🡪

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| 1. ***Static Discharge***

***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*** |
| 1. ***Mini Quiz***
* **A balloon has a negative change when rubbed by a woollen cloth. If the balloon can attract some paper scraps, which of the following cannot be the charge of the paper scraps?**
* **A balloon has a negative change when rubbed by a woollen cloth. During rubbing, what have been transferred between the woollen cloth and the balloon?**
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| 1. ***http://d2vlcm61l7u1fs.cloudfront.net/media%2F7e9%2F7e9d166c-38a7-4880-aead-0b1e6a6b8537%2Fphp0J4Eib.pngHow does a positively charged rod attract a neutral object?When a + charged rod is put near neutral object, \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is induced on the side of the object near the rod and \_\_\_\_\_\_\_\_\_\_\_\_\_ is induced on the side away from the rod. The rod can attract the netural object because \_\_\_\_\_\_\_\_\_ between rod and – induced charge > the \_\_\_\_\_\_\_\_ between rod and + induced charge.***

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| 1. ***Lightning*Sketch the diagram below.**
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| 1. **Law of Charges**
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