**Static Electricity** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Do Now**

|  |  |
| --- | --- |
| **Keyword** | **Definition** |
|  | The rate of flow of charge around a circuit |
|  | Measure of how easy it is for the current to flow around a circuit |
|  | The invisible magnetic force between magnets will pull the poles together. |
|  | The strength of the push provided to electrons by the battery in a circuit |
|  | The invisible magnetic force between the magnets will force the poles away from each other. |

**The Atom**

There are two kinds of charge: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

All objects are made up of atoms. Each atom contains three different types of particle:

Draw an atom here.

* A positive particle - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* A negative particle - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* A particle with no charge - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Atoms contain the same number of protons and electrons. The positive and negative charges are cancelled out and so an atom has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Static electricity occurs when an object either \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_ a negative charge.

We say that objects that \_\_\_\_\_\_\_\_\_\_\_ negative charges become positively (+) charged overall.

We say that objects that \_\_\_\_\_\_\_\_\_\_\_ negative charges become negatively (-) charged overall.

**What is Static Electricity?**

Define static electricity: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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State two examples of static electricity:



**Van De Graaf Generator**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are transferred onto the dome so the dome gets an electrical charge.

When we touch the dome, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ charge is passed to us.

We have to stand in a plastic tray. This is because plastic is an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so the electrical charge cannot flow through our bodies and feet to earth.

Our hair stands up because each strand is negatively charged and the same charges \_\_\_\_\_\_\_\_\_.

When the electrical charge jumps between the two domes, it makes a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

This can light a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gas such as methane.

**Dangers of Static Electricity**

State two dangers of static electricity:



How can the dangers associated with static electricity be prevented? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Why don’t birds get an electric shock when they sit on the overhead cables? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

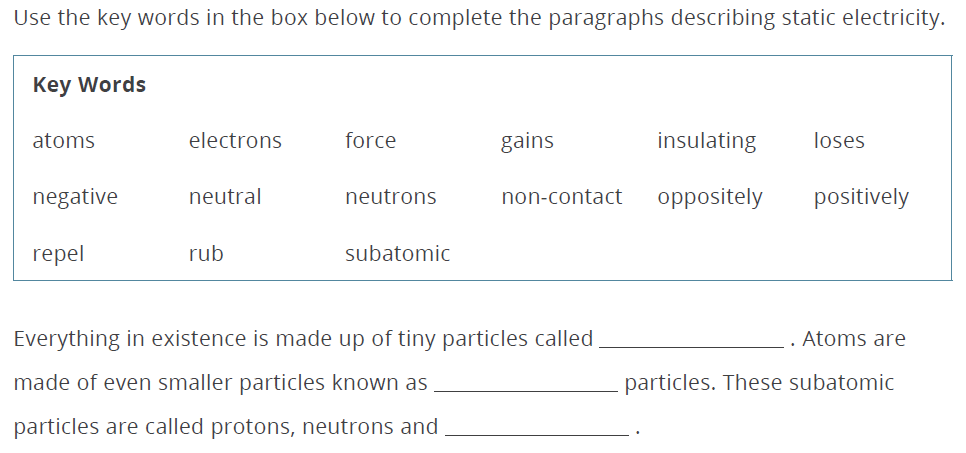
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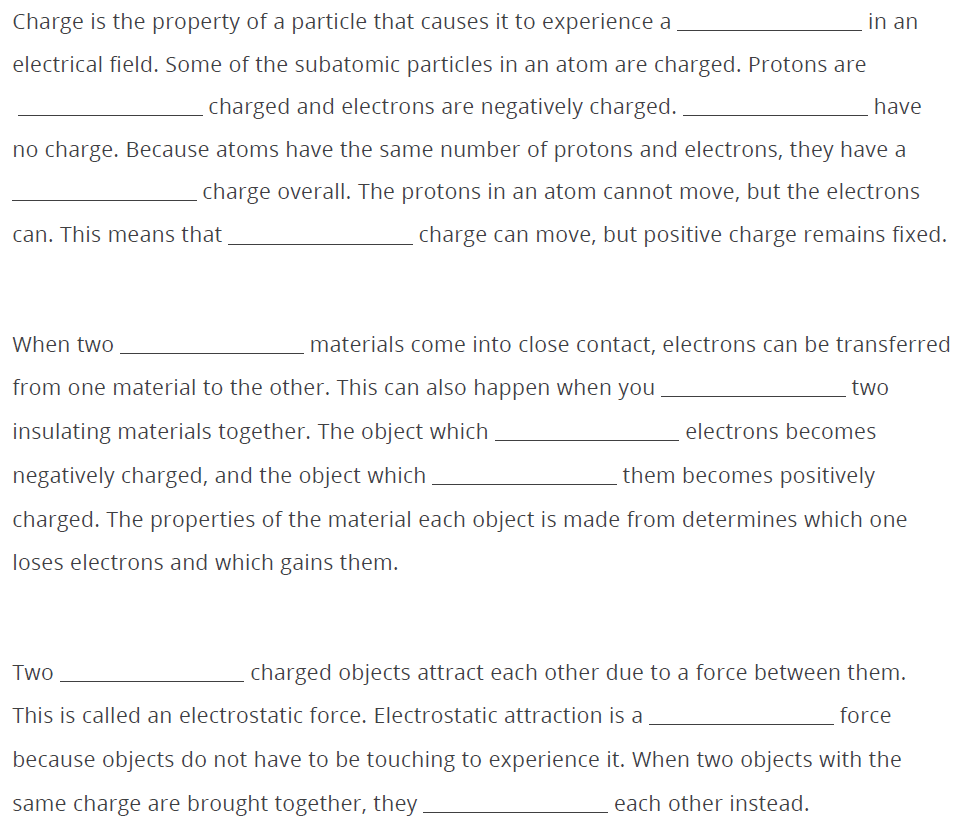
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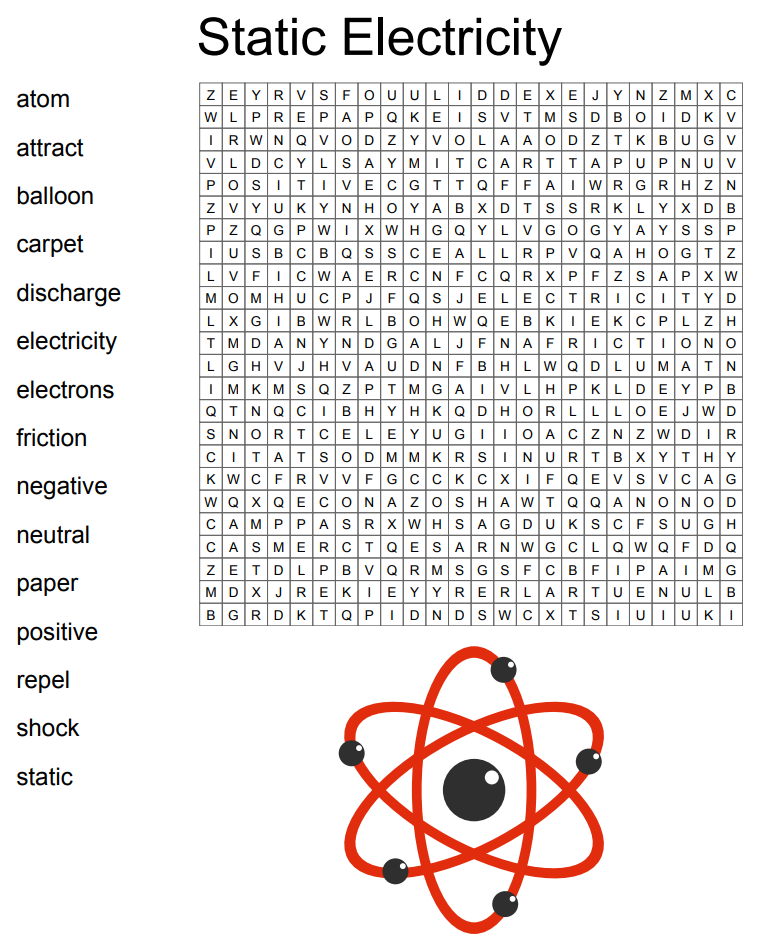
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**Any other important notes**

**How Much Do You Know?**





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