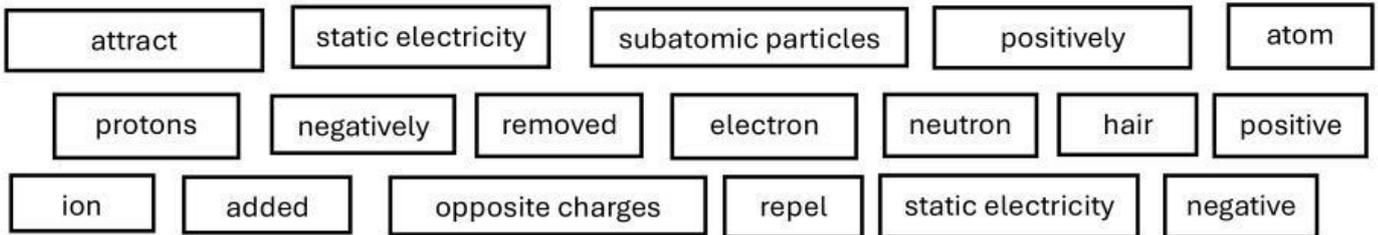


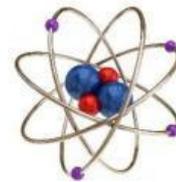
## Science Worksheet for Grade 9

### Static Electricity



Choose the right word from above to complete the sentences!

- \_\_\_\_\_ is the build-up of an electric charge in a certain location (stays in one place).
- Electric charges are the property of \_\_\_\_\_ that cause them to experience a force when placed in an electric and magnetic field.
- An \_\_\_\_\_ is the smallest unit of matter.
- An electron is a \_\_\_\_\_ charged subatomic particle.
- Proton is a \_\_\_\_\_ charged subatomic particle.
- \_\_\_\_\_ is an uncharged (neutral) subatomic particle.



- Protons \_\_\_\_\_ or move away from other \_\_\_\_\_. Electrons \_\_\_\_\_ or move away from other electrons. What happens between a proton and an electron? They \_\_\_\_\_, or move toward each other.

- If electrons are \_\_\_\_\_, the atom becomes positively charged.
- If electrons are \_\_\_\_\_, the atom becomes negatively charged.
- An atom that is charged is called an \_\_\_\_\_.

- Based on the experiment, what happens with balloons and hair?

There is \_\_\_\_\_ between the hair and the balloon. The hair is attracted to the balloon because they have \_\_\_\_\_.



- Rubbing the balloon gives it an electric charge (a small amount of electricity). Electrons jump from \_\_\_\_\_ to the balloon. This gives the balloon a \_\_\_\_\_ electric charge. Our hair loses \_\_\_\_\_. This gives our hair a \_\_\_\_\_ electric charge.

Good luck 😊