

Electricity

Charge up on electricity. Learn about static electricity and build circuits with stronger currents. Light up plasma balls and play fun games with conductivity. Use your Static Stick on electrons at home.

SUMMARY:

In this class, children get excited about electricity. Children use different objects to create a static field. They will test different objects for conductivity using fun lights and games. Students will work to master electrical circuits and build their own static stick to create electron movement at home!

EDUCATIONAL VALUE:

This workshop introduces the students to the fundamental concepts of electricity. Students, through hands-on activities, gain a better understanding of electrical circuits and the basic elements of electricity. This lesson provides an opportunity to develop scientific skills through inquiry based instructional methods.

TAKE-HOME MESSAGE:

- 1 Everything is made up of atoms and atoms are made up of neutrons, electrons and protons.
- 2 Electrons and protons like to be together
- 3 Electricity we use every day always needs to flow in a loop and is always looking for the quickest route to the ground through materials called conductors.



TAKE-HOME PRODUCT:

Mad Science Static Stick

NORTH CAROLINA ESSENTIAL STANDARDS:

- 1.P.1.2 Explain how some forces (pushes and pulls) can be used to make things move without touching them, such as magnets.
- 3.P.3.1 Recognize that energy can be transferred from one object to another by rubbing them against each other.
- 4.P.1.2 Explain how electrically charged objects push or pull on other electrically charged objects and produce motion.
- 4.P.2.1 Compare the physical properties of samples of matter (strength, hardness, flexibility, ability to conduct heat, ability to conduct electricity, ability to be attracted by magnets, reactions to water and fire).