

Lesson One

Pre-test

Grade: Fourth Grade

Time: 30-45 Minutes (w/small group accommodations)

Materials: Teacher Made Assessment/pencils/crayons

Objective: To assess students' current knowledge and understanding of electricity and how it pertains directly to their own lives.

Standards: NYS/National Standards

New York State Standards: Standard One: Analysis, inquiry, and design.

- Scientific Inquiry: Key Idea One, The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing creative process. **S1.1** Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about

National Standards: NS.K-4.2 Physical Science

- As a result of the activities in grades K-4, all students should develop an understanding of the following: properties of objects and materials, position and motion of objects, and light, heat, electricity, and magnetism. Utilize to build an electrical circuit as well as being able to understand electricity and its path traveled.

Procedure:

- 1.) Inform students that they will be taking a brief survey on the topic of electricity. Have students start thinking of things that they use in their own lives that are powered by electricity. Students should be aware that this is the beginning of an electricity unit.
- 2.) The teacher should pass out the survey/assessment face down.
- 3.) The teacher will then ask students to flip the surveys over, read the directions aloud to the class, and allow them to begin.
- 4.) When students have completed they will be asked to use pencils and art materials to draw a picture on the back of their assessment representing their idea/understanding of where electricity comes from, or how they have used electricity.

Conclusion:

The teacher will conclude the work time, and explain to students electricity is used as well as produced in a variety of ways which we will learn about throughout this unit. The teacher will then allow the students to share and explain their illustration to the class while collecting them.

The teacher will analyze the questions answered for gaps, misconceptions, and repetitions. This will be done to tailor and differentiate future instruction.