

Lesson Plan – Fifth Grade Science

Vicki Parker – West Elementary School

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Topic: Forms of Energy/Skills for Energy Industry

Alabama Course of Study Objective: Describe forms of energy including chemical, heat, light, and mechanical

Background knowledge: Students need to have a general understanding of electricity (static and current) and what things are considered conductors and insulators of electricity.

Lesson length: 2-3 days

Procedure: Students will access www.eia.gov/kids/energy. This site will allow them to explore different forms of energy, non-renewable sources, renewable sources, electricity, and energy efficiency. They will answer questions about what they are reading as they progress throughout the site. A certificate of completion is awarded at the end of the lesson.

Using sites.google.com/site (Google docs) and smart board to display for the class to view, conduct a class discussion on the flow of electricity from plant to homes. Brainstorm on all the various jobs it would take for the process of electricity to be created from plant through lines and then to homes. Create a class list as each job is discussed. Have students choose one of those jobs and work in groups to develop a list of requirements each job would involve.

Example: The job staking technician – uses math when calculating angles and measuring distances from poles to structures needing electricity; uses writing when creating reports and filling out paper work that is required of each job; uses technology when entering data and creating drawings of each job; uses cooperation and collaboration when working with the engineering department as plans are developed and meeting customers in the field. After all groups are finished, they will present their findings to the class and the students will see the many skills needed in each job position.

As a culminating activity (if possible), invite a Cullman Electric Cooperative employee to visit the class and discuss their job and the skills it takes in order to be successful.