

Sources of Electricity

WebQuest Description: Through a variety of tasks and exploration, students will learn about the categories and different sources of electrical energy.

Grade Level: 3-5

Curriculum: Technology

Keywords: Electrical Technology, Sources of Electric Energy

Published On:

Last Modified: 2017-05-11 08:03:17

WebQuest URL: <http://zunal.com/webquest.php?w=354643>

Introduction

Electricity is one of the most important blessings that science has given to mankind. It has also become a part of modern life and one cannot think of a world without it. Electricity has many uses in our day to day life. It is used for lighting rooms, working fans and domestic appliances like using electric stoves, A/C and more. All these provide comfort to people. In factories, large machines are worked with the help of electricity. Essential items like food, cloth, paper and many other things are the product of electricity. This Web quest lesson seeks to help students to understand the main categories of electric energy and each resources that can be used as a source to generate electricity. It will give students the knowledge on how does electricity formed and the limitation of those resources..

Tasks

The aim of this webquest is to study about the sources of electrical energy. You will explore various web sites to research and gather information to do an individual writing journal assignment. After completion of your individual writing assignment, a 10 question quiz will follow.

Process

Part A. View the following website on Renewable Energy: <https://www.nationalgeographic.org/encyclopedia/renewable-energy/> In a journal entry, describe in your own words what is renewable energy, define each renewable sources energy and how can this type of resources produce electrical energy? Part B. View the following Website on Non-renewable Energy: <https://www.nationalgeographic.org/encyclopedia/non-renewable-energy/> In a journal entry, describe in your own words what is non-renewable energy, define each non-renewable sources energy and how can this type of resources produce electrical energy? Part C. View the following website on the Advantages and Disadvantages of those Sources of Energy: <https://www.nationalgeographic.org/encyclopedia/renewable-energy/> <https://www.nationalgeographic.org/encyclopedia/non-renewable-energy/> In a journal entry, discuss in your own words the advantages and disadvantages of renewable and non-renewable energy.

Evaluation

Each student member will be evaluated on writing journal comprehensions, spelling and grammatical errors, and performance completion. Students will also receive a grade on the pencil and paper quiz over content knowledge. The goal of this web quest is to reach a perfect score of 20 points. Good luck and happy writing!

Category and Score	Level 1	Level 2	Level 3	Level 4	Score
Shows comprehension of what are the sources of electrical energy	Below or no understanding	Approaching some understanding to computer crimes	Good understanding	Perfect comprehension and knowledge of computer crimes	5
Spelling and Grammar error	Many mistakes and grammar errors	Some spelling and grammar error	Very little spelling and grammar errors	Very few to none spelling and grammar errors	5
Overall Performance in writing journal	Student did not follow direction and complete task	Student partially completed task with outside assistance	Student Completed most of task without outside assistance	Student successfully completed the writing task independently	5
pencil and paper quiz about sources of electrical energy	Student answer one or two correctly	Student answered five correctly	Student answered most questions correctly	Student answered all questions correctly	5

Category and Score	Level 1	Level 2	Level 3	Level 4	Score
				Total Score	20

Conclusion

 Congratulations! You have completed the webquest lesson with the ability to identify what are the categories and sources of electrical energy. Now you have an idea how does electric energy formed and the creation of this phenomenon. I hope you really understand our lesson. This is just the beginning of learning about the fundamentals of electricity.

Teacher Page

Standards

Credits

Other