

Earth

WebQuest Description: You will be conducting research related to Earth's natural resources. Please follow the WebQuest instructions and complete the tasks.

Grade Level: 3-5

Curriculum: Science

Keywords: Earth, Water, Sunlight, Air, Trees, Soil, Coal, Electricity, Solar

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Introduction

Your class has been selected to help the most famous scientist in the world, Dr. Lightbulb, with a new experiment. She is working on a top-secret project involving different types of natural resources. She needs YOUR help to decide which resources to include in her study. In this WebQuest, you will seek answers to questions about Earth's natural resources, to assist Dr. Lightbulb. ¡» ¿Good Luck!

Tasks

A message from Dr. Lightbulb: Hello Students: I am working on a top secret project, and I've chosen YOUR class to help me! After my last experiment, I just can't seem to remember ANYTHING about natural resources! I've provided your teacher with a list of questions. I need you to do some research about Earth's natural resources. I have questions about the different types of natural resources, where they come from, and what they are used for. I like my information organized and easy to read. So please complete a Research Checklist. Thanks for your help! Best of luck! Dr. Leslie L. Lightbulb

Process

Dr. Lightbulb has provided a list of questions she needs answered, and a list of her favorite websites to use for research. In your groups, complete the Research Checklist using the websites to find the answers to her questions. (Click on the links below) Put the number of the website where you find the answer to each question in the last column. All Research Checklists will be collected when you finish. The class as a whole will review the findings and check for accuracy. The teacher will send the results to Dr. Lightbulb.

Dr. Lightbulb's Favorite Websites: <http://www.theworldcounts.com/stories/natural-resources-for-kids>; <http://www.sciencekids.co.nz/sciencefacts/water.html>; <https://kidskonnnect.com/science/trees/>; <http://www.scienceforkidsclub.com/coal.html>; <https://climatekids.nasa.gov/10-things-air/>; <http://www.soils4kids.org/about>; <http://www.scienceforkidsclub.com/oil.html>; <http://www.sciencekids.co.nz/sciencefacts/energy/solarpower.html>

Dr. Lightbulb's Questions: Is the existence of water essential for life on Earth? Does water cover around 10% of the Earth's surface? Is drinking water needed for humans and animals to prevent dehydration? Are trees the smallest plants? Do trees provide food? Do trees provide energy? Has oil only existed for 10 years? Is oil found deep under the Earth's surface? Can oil be used for medicine, makeup, paint, pens and clothing? Is soil a complex mixture of berries and dust? Does soil serve as media for growth of all plants? Does soil help the atmosphere? Does soil act as a filter to clean water? Is air made up of nitrogen and oil? Do plants need air to live? Is coal found in plants? Is coal considered a sedimentary rock? Is solar energy obtained from the moon? Can solar energy be used to create electricity? Can solar energy be used for heating, cooking and electricity?

Evaluation

Collaboration Rubric

Category and Score	Fully Understood	Understood Well	Did Not Understand Very Well	Did Not Understand At All	Score
The student was able to answer each question pertaining to natural resources correctly.	25 Points	20 Points	18 Points	15 Points	
The student was able to provide a correct explanation as to why he/she answered a question "NO".	25 Points	20 Points	18 Points	15 Points	
The student followed directions and created a correct and comprehensible Research Checklist.	25 Points	20 Points	18 Points	15 Points	
The student used the resources provided to help answer the questions correctly.	25 Points	20 Points	18 Points	15 Points	
				Total Score	

Conclusion

Congratulations! Dr. Lightbulb is very grateful. She thanks you. She can start her next experiment! Now, if you have further questions about our planet Earth and her natural resources, you know where to look for the answers. You are experienced researchers!

Teacher Page

Students can work individually, if groups are not preferable. After all Research Checklists are collected, the class should review the findings together. The websites can be accessed to locate the correct answers. Their value and scope can be reinforced.

Standards

THE AASL'S NINE INFORMATION LITERACY STANDARDS FOR STUDENT LEARNING
 Standard 1: The student who is information literate accesses information efficiently and effectively.
 Standard 2: The student who is information literate evaluates information critically and competently.
 Standard 3: The student who is information literate uses information accurately and creatively.
 ISTE TECHNOLOGY STANDARDS FOR STUDENTS
 Empowered Learner 1: Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.
 Knowledge Constructor 3: Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.
 3rd Science » 3-SC-U1 Earth's Materials and Resources 3.E.4A.1 will demonstrate an understanding of the composition of Earth and the processes that shape features of Earth's surface.

Credits

Other