



Renewable Energy Sentences

Grade: 3

Subjects: Science, Language Arts, Social Studies

Time: 40 minutes



***Standards:** Students will...

Technology Standard 6: Understand the nature and uses of different forms of technology.

Benchmark # 3: Know that different types of energy (e.g., solar, fossil fuels) have different advantages and disadvantages (e.g., solar energy is a cleaner source of energy than fossil fuels, but currently is more expensive).

Geography Standard 16: Understand the changes that occur in the meaning, use, distribution and importance of resources.

Benchmark # 1: Know the characteristics and uses of renewable resources (e.g., water, wind, timber) and non-renewable resources (e.g., fossil fuels).

Language Arts Standard 3: Use grammatical and mechanical conventions in written compositions.

Benchmark # 3: Use nouns in written compositions (e.g., use plural and singular naming words, use nouns as subjects).

Benchmark # 4: Use verbs in written compositions (e.g., use a variety of action verbs, verbs that agree with the subject).

Benchmark # 9: Use conventions of spelling in written compositions.

Benchmark # 10: Use conventions of capitalization in written compositions.

Benchmark # 11: Use conventions of punctuation in written compositions.

Objectives: Students will be able to...

- Differentiate between renewable and non-renewable energy sources.
- Identify the basic parts of speech.
- Recognize the subject-predicate relationship in sentences.
- Write in complete sentences using correct mechanics (end marks, commas for series, capitalization), usage (subject and verb agreement in a simple sentence), and sentence structure (elimination of fragments).

Please click [here](#) to view both the creative artwork for this great lesson and the downloadable PDF.

Materials:

- Renewable energy word bank and sentence worksheet (included below)
- Writing utensils
- Paper
- A copy of "Our Earth: Clean Energy " (Scholastic News Nonfiction) by Peggy Hock



Overview: Energy sources can be divided into two groups: renewable and non-renewable. Non-renewable energy sources, such as fossil fuels, are rapidly being consumed and are causing considerable harm to the environment. However, renewable energy sources are environmentally friendly and replenishable. Renewable energy sources consist of wind energy, solar energy, geothermal energy, biomass (from plants), and hydropower from water. Both renewable and non-renewable energy sources can produce electricity and hydrogen, which are secondary energy sources.



Kid's Speak: Wind, sun, water, biomass, and geothermal are renewable energy resources. Fossil fuels, like coal, oil and natural gas are non-renewable energy sources. Renewable energy sources naturally renew their energy supply. They will never run out of energy.

Eco-Fact: Only seven percent of the nation's energy is produced by renewable resources.

Procedures:

Before Writing Renewable Energy Sentences:

- Explain to students that renewable energy is energy that is extracted from natural, replenishing sources – like the sun, wind and water.
- Read aloud "Our Earth: Clean Energy " (Scholastic News Nonfiction) by Peggy Hock.
- Review the essential components of a sentence: noun, verb, and complete thought.
- Tell students that they are going to make renewable energy sentences by choosing a renewable energy verb and noun from a renewable energy word bank.
- Distribute the word bank (included) to students, and tell students they must use a noun and a verb from the bank in each of their sentences.

After Writing Renewable Energy Sentences:

- Have students share their favorite sentences with the class.
- When lesson is finished, display students sentences throughout the classroom.

Adaptations:

- Each student can make a mini energy book by writing great sentences and illustrating their meaning ideas. Put the pages together to form a booklet for each student.
- Each student can choose their best sentence and illustrate its meaning. Put the students' pages together to form a classroom book.

Extensions:

- Create PowerPoint presentation. Use original sentences and add graphics from the Internet or original drawing program graphics.
- Check out these additional resource books by Tea Benduhn which include: " Water Power"; "Nuclear Power" ; "Wind Power"; "Solar Power"; "Oil, Gas, and Coal"; "Ethanol and Other Fuels

GEF Community: Join the GEF Community! First, add your school, class or group as a GEF member. It just takes a minute and your students will learn about technology and social networking all in one. Use your class or group page to keep a record of your students' projects, ideas and photos. You can share them with other schools across the nation. Simply complete the basic information and then join the Green Energy Challenge where you can share your energy definitions from this experiment.



 **Renewable Energy Sentences**

Directions: Create 5 sentences below using the nouns and words from the word bank chart.

Nouns	Verbs
Sun	Shine(s)
Wind	Flow(s)
Wave	Crash (es)
River	Host(s)
Windmill	Blow(s)
Waterwheel	Renew(s)
Solar panel	Power(s)
Solar energy	Create(s)
Hydrogen energy	Turn(s)
Dam	Fuel(s)
Sundial	
Biomass	
Bio- fuel	
Vegetable oil	
Trash	
Turbine	
Home	
Factory	

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1. Click on the image above
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Click on the second icon from the print button to save your lesson to your computer.

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