

Types of Energy Sources WebQuest

Activity 1

Read [Renewable Energy](https://www.eia.gov/kids/energy.cfm?page=renewable_home-basics) and then [Nonrenewable Energy](https://www.eia.gov/kids/energy.cfm?page=nonrenewable_home-basics) and complete the table below.

https://www.eia.gov/kids/energy.cfm?page=renewable_home-basics

https://www.eia.gov/kids/energy.cfm?page=nonrenewable_home-basics

Renewable	Nonrenewable
1. Which energy sources are renewable?	2. Which energy sources are nonrenewable?
3. What does renewable mean?	4. What does nonrenewable mean?
5. As of 2016 what percentage of USA power came from renewable sources?	6. Where do we get nonrenewable resources?
7. Renewable energy plays an important role in	8. What fossil fuels were formed from buried remains of plants and animals that lived millions of years ago?
9. Why don't we use more renewable energy?	10. If uranium is not a fossil fuel, what is it?

11. Is one type of energy better than the other? _____

12. Which energy sources do you think are the best to use and WHY? _____

Activity 2

Describe each of the following [types of energy sources](http://www.childrensuniversity.manchester.ac.uk/learning-activities/science/energy-and-the-environment/renewable-and-non-renewable/).

<http://www.childrensuniversity.manchester.ac.uk/learning-activities/science/energy-and-the-environment/renewable-and-non-renewable/>

Activity 3

Complete chart below with [pros and cons of each energy source](http://www.childrensuniversity.manchester.ac.uk/learning-activities/science/energy-and-the-environment/advantages-and-disadvantages/).

<http://www.childrensuniversity.manchester.ac.uk/learning-activities/science/energy-and-the-environment/advantages-and-disadvantages/>

Activity 2: Describe each energy source	Activity 3: Pros	Activity 3: Cons
Oil and Gas-		
Uranium ore (NUCLEAR)		
Biomass-		
Wind-		

Solar-		
Coal-		
Hydro-electricity		
Geothermal power-		

After Activity 2:

Quiz time: score _____/8 teacher sign _____

Activity 4

In the next activity, you will “[Power Up](http://scienetlinks.com/interactives/powerup.html)” a city using an online interactive. In the interactive, you will buy different energy sources, some renewable and some nonrenewable. You will have to keep an eye on your budget and how the energy sources you are buying have an impact on the environment.

<http://scienetlinks.com/interactives/powerup.html>

Name your city: _____

Type of Power	Power	Cost	Impact

What power sources were included in your successful city?

Final task: You will write a proposal intended to be read by the citizens of the city, which explains how their city will be powered. It’s important that the proposal explains why you made the power plant choices you did. Must include the following:

1. Address the letter to the Mayor and citizens of the city.
2. Describe each power plant to be used.
3. Describe the advantages of each power plant. Include any disadvantages, but be sure to make a case for why each power plant is a good choice, even with disadvantages.
4. The letter must be typed and submitted to me via Office 365 by Feb _____, 2018