

Renewable resources:

Resources that are
capable of being
replenished.



Nonrenewable resources:

Resources that cannot
be replenished (made
again) in a short period
of time.



Stewardship Scenarios

Scenario One:

A third grader and her family live in Wyoming and have chickens. She noticed that the machine feeder that scatters the chickens' corn in the morning and afternoon has to be plugged in because it requires electricity. For a science fair project, she designs a wind turbine that will power a machine to feed the chickens twice a day. Her parents help her build it, and it works, allowing them to successfully feed the chickens without using additional electricity. The girl receives an A for her project.

Scenario Two:

A third-grade student comes home from school. As he walks through the house, he turns on a light in every room that he walks through. He ends up in the kitchen and stands in front of the refrigerator with the door open deciding on a snack.

Scenario Three:

A third-grade girl is doing her homework in her living room at 3:30. She is listening to music on her phone while watching her favorite cartoon. She also has the family's computer on, so she can research a topic. Two lamps and an overhead light are turned on, as well.

Scenario Four:

A third-grade boy's family is staying at a hotel while on vacation. He notices a card on the nightstand that talks about not receiving fresh towels and sheets everyday. He knows that hotels have to use a lot of water and electricity in order to wash and dry all of the towels and sheets. He and his family agree to not ask for new linens while they stay.



Name: _____

Energy Resources

Answer Key

Directions:

Match the word from the word bank with the image of the energy source it describes.

Word Bank:

Wind

Oil

Coal

Hydro

Natural Gas

Solar



Solar



Wind



Hydro



Natural Gas



Coal



Oil

Name: _____

Energy Resources

Directions:

Match the word from the word bank with the image of the energy source it describes.

Word Bank:

Wind

Oil

Coal

Hydro

Natural Gas

Solar















Energy Resource Production

Name: _____

<p>Wind power is collected using wind turbines. As the wind moves the blades of the wind turbine, it creates electricity. When the wind stops, the blades come to a rest waiting for the wind to return.</p>	R	N
<p>Oil formed millions of years ago is pumped from underground and then re-fined to make fuel for electrical power plants. The oil is then burned to create steam, which turns a turbine that creates electricity. Once the oil from one area is gone, companies must find a new area with oil.</p>	R	N
<p>Coal formed millions of years ago is mined out of the ground and taken to electrical power plants. There it is burned to create steam, which turns a turbine that creates electricity. Once the coal from one area is gone, companies must find a new area with coal.</p>	R	N
<p>Solar power, or power from the sun, is collected using photovoltaic panels. The sunlight hits the solar panels and causes electrons to flow, producing electricity. Sometimes mirrors focus the sunlight to create steam, which turns a turbine that creates electricity. As long as the sun shines, power is created.</p>	R	N
<p>Hydro, or water, power is formed when water turns a turbine creating electricity. Often, these turbines are found near dams and reservoirs where there is enough water to turn the turbines. The water cycle keeps refilling the reservoirs powering the turbines.</p>	R	N
<p>Natural gas formed millions of years ago is pumped from underground and then piped as fuel for electrical power plants. The natural gas is then burned to create steam, which turns a turbine that creates electricity. Once the natural gas from one area is gone, companies must find a new area with natural gas.</p>	R	N

What are all of these energy resources producing?



Lesson 1 - Exit Ticket

(Name/Date) _____

What makes a resource renewable?

What makes a resource nonrenewable?

What can you do to be a good steward of electricity?

Lesson 1 - Exit Ticket

(Name/Date) _____

What makes a resource renewable?

What makes a resource nonrenewable?

What can you do to be a good steward of electricity?



