

4TH GRADE SCIENCE

Florida's natural resources

Florida's Natural Resources

Natural Resources: Material Use

Silicon
Silicon is a brittle crystalline solid that is the second most abundant element in the Earth's crust. It is rarely found alone, or in pure form, so it is usually bonded with other substances.
For example, quartz, has silicon in it and is the most abundant when you are walking on the beach, you are walking on or use the silicon in sand or even soil by turning it through in your hands.
 
Quartz Sand
What do we use silicon for that makes our lives more convenient? Well, the device you are using right now needs silicon. Silicon is used to make computer chips. Silicon conducts electricity and helps to better where it keeps up, unlike some other elements.

Florida's Natural Resources

Water Conservation Poster

Design a poster to encourage people to conserve water.

Example:



Florida's Natural Resources

Read each statement below. Put a checkmark on the correct natural resources.

	Renewable	Nonrenewable
We use fossil fuels to not only power our cars, but to produce electricity in power plants.	<input type="checkbox"/>	<input type="checkbox"/>
Geothermal energy is the heat that comes from inside Earth. It is an alternative energy source that can be used for cooking, heating, and heating.	<input type="checkbox"/>	<input type="checkbox"/>
Wind-powered electricity is not only renewable, its production doesn't create greenhouse gases or radioactive waste.	<input type="checkbox"/>	<input type="checkbox"/>
In order to produce energy from water, a dam and reservoir have to be built so that the flow of water running across the turbines can be controlled.	<input type="checkbox"/>	<input type="checkbox"/>
Tidal energy is the process of using the low and high tides of the ocean to produce electrical energy.	<input type="checkbox"/>	<input type="checkbox"/>
Phosphorus is also used in the production of animal feed supplements and food preservatives.	<input type="checkbox"/>	<input type="checkbox"/>
We can use solar panels to collect the energy of the Sun and use it to provide electricity to our homes.	<input type="checkbox"/>	<input type="checkbox"/>
Limestone is used to make cement and asphalt that we use to build our roads and bridges.	<input type="checkbox"/>	<input type="checkbox"/>
Water power, wind power and solar power are just a few natural resources to produce the	<input type="checkbox"/>	<input type="checkbox"/>

Florida's Natural Resources

Which of the following are renewable sources of energy?
a. coal and natural gas
b. oil and electricity
c. sunlight and geothermal
d. wind and water

What is the source of energy that causes the blades of a turbine to spin?
a. water
b. wind
c. oil
d. sunlight

Which of the following statements about energy is NOT correct?
a. Moving air is a source of energy.
b. Wind energy is a renewable resource.
c. Wind is a clean source of energy.
d. Most people use wind energy.

Which of the following is NOT a way that people can be harmful to the environment?
a. burning coal for energy
b. clearing land for homes
c. making products from wood
d. planting trees in a forest

Which of the following is NOT a way that people can be harmful to the environment?
a. driving cars and trucks
b. dumping factory wastes
c. creating oil spills
d. using solar energy

Which of the following is a major cause of air pollution?
a. burning fossil fuels
b. dumping waste in landfills
c. using wind and solar energy
d. releasing waste into streams

Florida's Natural Resources

Water Conservation

- ☐ Reduce the amount of time you are in the shower.
- ☐ Water your grass in the hottest part of the day.
- ☐ Use landscape plants that don't require a lot of water.
- ☐ Turn off the water when you brush your teeth.

Human Impact on Water

- ☐ Harmful algal blooms don't affect humans, only fish.
- ☐ Florida beaches have to be closed when harmful algal blooms are present.
- ☐ Freshwater uses millions of liters of water.
- ☐ Industry contaminates water that often doesn't make it back to the ocean.

Select the energy source or sources that describes each statement.

	Source of Energy	Human Impact
1. Industry, agriculture, and recreation		
2. Can be contaminated from industry		
3. Survival for all life		
4. For healthy forests		
5. Can cause harmful algal blooms		
6. Turn off water while you are brushing your teeth.		

Florida's Natural Resources

Geothermal, Hydroelectric and Tidal Energy

Geothermal is a way of producing energy using the heat below the surface of the Earth. To produce large amounts of energy using this process, areas in large amounts need to be drilled and drilled. In this process, the heat that is underneath is used to create electric energy, which in turn can be used to heat our homes. This process does not produce greenhouse gases, but it is expensive to get started.

Hydroelectric energy is the process of using the kinetic energy of water into electrical energy. In order to produce energy from water, a dam and reservoir have to be built so that the flow of water running across the turbines can be controlled. When the water is released from the dam it is controlled so that it can flow over water turbines to produce electricity. We have found with most of these renewable energy sources, while they don't produce greenhouse gases, they can impact the environment. When humans build large dams it changes the movement of water, affecting many of the living organisms in the area.

Tidal energy is the process of using the low and high tides of the ocean to produce electrical energy. Tidal energy is produced by using turbines in the turbines. However, along with the benefits of not producing greenhouse gases, it can impact the environment. When humans build large dams it changes the movement of water, affecting many of the living organisms in the area.




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Florida Earth Space Science Work Answers

Emilie Sanchez



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