***Unit 3***

***Week3***

***Quiz***

***Renewable Resources***

Renewable resources are used to produce energy. Renewable resources are nondepletable, so they can never be used up. On the other hand, nonrenewable resources can be depleted, or used up. Today, the price of nonrenewable resources, such as oil and natural gas, has increased. Scientists are searching for new ways to use renewable resources.

One renewable resource is biomass. It is a material that comes from plants and animals and contains microorganisms. This resource is renewable because there will always be plants and animals. Wood is a type of biomass that once created most of the energy used. People used to burn wood to produce heat. Today, some people still use wood to heat their homes and to cook. Most wood fuel is used by the paper and wood industries, which burn their wood scraps to produce electricity.

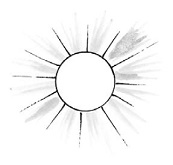
Another renewable resource is geothermal energy. It comes from heat within Earth. This heat is always in the ground and is recovered as steam or hot water. Geothermal energy can be seen at a hot spring. This natural pool is filled with water heated underground. Geothermal energy can be used to heat buildings.

Water is another renewable resource. Hydropower is created when water falls or flows. Water is one of the oldest energy sources. For instance, it was used to turn a paddle wheel to grind grain thousands of years ago. Today, about one-third of the power that comes from renewable resources comes from hydropower.

The sun is a renewable resource because it does not stop shining. Solar energy comes from the sun’s rays. During World War II, there was a limited supply of electricity. Buildings were designed so that the windows, walls, and floors collected and stored solar energy. Today, some homes and businesses use solar panels to collect solar energy.

The wind is a powerful renewable resource. Wind power has been used since ancient times as an energy source. Windmills have pumped water, ground wheat and corn, and generated electricity. Today, windmills are a nonstandard way of generating power. However, their popularity is growing. There has been an increase in the number of windmills. Using windmills requires some preplanning. You need another energy source for days when the wind does not blow.

Renewable resources have been used for thousands of years. Some people are looking at renewable resources for new ways to replace some nonrenewable resources.



Match the main idea of the article with **two** details that support it.

Windmills generate electricity using wind power. added to

* **The price of nonrenewable resources has increased.**
* **Renewable resources come from sources that cannot be depleted.**
  + **Hydropower is one of the earliest forms of power.**
  + **Windmills generate electricity using wind power.**

This question has two parts First, answer Part A. Then, answer Part B.

**Part A**

Which statement explains why geothermal energy is a renewable resource?

****A. Earth will always produce heat.

****B.Hot springs will always have hot water.

****C.There will always be heat coming from the sun.

****D.The flow of water will always produce electricity.

**Part B**

Which sentence from the article **best** supports your answer in Part A?

****A."Most wood fuel is used by the paper and wood industries, which burn their wood scraps to produce electricity."

****B."This heat is always in the ground and is recovered as steam or hot water."

****C."Geothermal energy can be used to heat buildings, and it is also used for drying food and gold mining."

****D."Today, about one-third of the power that comes from renewable resources comes from hydropower."

Read the sentence from the article.

Today, windmills are a nonstandard way of generating power.

What is a nonstandard way?

****A. an old way

****B. the best way

****C. not the usual way

****D. not the correct way

This question has two parts. First, answer Part A. Then, answer Part B.

**Part A**

Read the sentence from the article.

Using windmills requires some preplanning.

The prefix pre- means “before.” What does preplanning mean?

****A. planning again

****B. waiting to plan

****C. planning ahead

****D. forgetting to plan

**Part B**

Which word has the **same** prefix as preplanning?

****A. prefer

****B. preschool

****C. president

****D. Pressure

***Nonrenewable Resources***

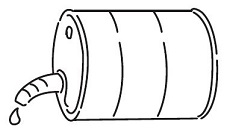
Fuels used to produce energy come from many different sources, some of which are nonrenewable. These resources have a limited supply and cannot be replaced. Once they are used, they are gone forever.

Some examples of nonrenewable resources are coal, oil, and natural gas. They are usually found in deposits deep underground. Dead plants and animals were buried under layers of rock and soil. Then heat and pressure were applied to the remains. After millions of years, these fuels were created.

Oil has been used as a fuel for many years. Before the 1890s, the main product made from oil was kerosene. It heated homes and lit lamps. The invention of the automobile created a need for gasoline. Gasoline replaced kerosene as the main product made from oil. The amount of gasoline needed increased as the number of cars increased.

Like oil, natural gas has been used for a long time. In the past, natural gas had problems as a fuel source. The wooden pipes used to carry natural gas leaked. It was hard to move gas safely. The invention of strong pipes that did not leak changed the gas industry by allowing natural gas to be carried far from where it was found. Today, people use natural gas to heat their homes and water. Natural gas powers clothes dryers, fireplaces, and gas grills.

Coal burns like oil and natural gas. Coal is a black or brownish-black rock. There are four types of coal. Microscopes are used to help determine the type of coal. Each type of coal is used for different things.



Coal has had many uses. In the past, it was used to make items for the military, such as shot and shells. It was burned to produce steam for train engines and steamboats, and it was also used as fuel to heat homes. Today, coal is used to create almost half of all the electricity generated in the United States. By-products of coal are used to make plastics, tar, and medicine. Coal is also used to make steel, which is used to make building materials and automobiles.

Nonrenewable resources provide electricity that powers many things. Oil, coal, and natural gas have been used as fuel for many years. Our use of these fuels has changed over time, and it will most likely continue to change.

This question has two parts. First, answer Part A. Then, answer Part B.

### Part A

Which sentence **best** describes what the article is about?

****A. Natural gas has been used as a fuel for many years.

****B. Coal was used to power train engines and steamboats.

****C. Before the 1890s, the main product made from oil was kerosene.

****D. The uses for nonrenewable resources have changed through time.

### Part B

Which detail from the article **best** supports your answer in Part A?

****A. Nonrenewable resources help to provide electricity.

****B. There are different types of coal buried in the ground.

****C. Gasoline replaced kerosene as the main product made from oil.

****D. Fuels were created from dead plants and animals over millions of years.

This question has two parts. First, answer Part A. Then, answer Part B.

### Part A

Read the sentence from the article.

Microscopes are used to help determine the type of coal.

The prefix micro- means "tiny." What do microscopes do?

****A. They allow you to look at very small things.

****B. They make large things look smaller than they are.

****C. They allow you to look at things that were once very small.

****D. They make small things larger so you can see them without a machine.

### Part B

Which other words have the same prefix as the word microscopes? Pick **two** choices.

****A. macaroni

****B. machetes

****C. microphones

****D. microwave

****E. periscope

****F. telescope

Use the drop-down menus to select the correct words for the following sentence.

The teacher         give us         homework last night.

Select the correct sentence.

****A. Jack can'not find money to go to the concert.

****B.The scared puppy doesn't want to go to the park.

****C. I guess you wont get up early tomorrow.

****D. That cake don't have enough icing.

Choose the correct vocabulary word from each drop-down menu to complete the sentences.

We are trying to           less energy by using fewer appliances.

Resources that are           can be replaced naturally.

A new floor was           in the restaurant because the old floor was worn out.

Choose the correctly spelled word to complete each sentence.

The manager made sure that the grocery store worker did not mislabel / misslabel the food items.

Don't forget to uneplug / unplug the heater if you aren't using it.

It was raining nonestop / nonstop yesterday, but today it is sunny.

Use the drop-down menus to complete the sentence with words that come from mythology.

We walked through the paths of the complex            , and later, we saw a huge             in the distance.