



## Unit 4: Renewable Energy.

STUDENT'S NAME: \_\_\_\_\_ LEVEL: \_\_\_\_\_ DATE: \_\_\_\_\_

OC: Skim and extract specific information to complete information, to match vocabulary with their definitions and to give personal opinion.

Activity: Complete information, match vocabulary with their corresponding definition and give personal opinion.

INSTRUCTIONS:

Read carefully the instructions of all the activities of this guide. If you have doubts ask for help to your teacher.

### Reading and Vocabulary: Renewable Energy

I. Look at the pictures of energy sources below. Then, complete the table below, putting the sources in the correct category. (mira las imágenes de fuentes energía abajo. Luego, complete la tabla, poniendo las fuentes de energía en la categoría correspondiente. 4 points)



WIND



COAL



NUCLEAR



SOLAR

RENEWABLE ENERGY	NON-RENEWABLE ENERGY

### What is renewable energy?

Renewable energies are obtained through natural sources that nature itself will replace, like wind, water and sunshine. Renewable energy produce low amounts of pollution and are friendly with the environment. So where can you get this type of energy, free and forever? Just look up above you when you're outside on a sunny day... Yes, the sun gives our planet far more energy than people make from fossil fuels, such as oil and coal. The Sun's heat drives the mightiest engine of all: the Earth's climate. It makes you hot when it shines but it also makes winds, waves and rain. And people can use all these things to make electricity or heat energy for homes. And most important, unlike fossil fuels, this sort of energy doesn't damage the Earth and will last forever!

**The Sun Power:** It can make electricity by using things called photovoltaic cells (often just called PV) which fit on the roofs or walls of your houses or apartment blocks. Some special cars can run on PV electricity and there's even a race across Australia in which the cars run only on solar power.

Sun power can also heat water in solar panels (like radiators but instead of giving out heat, they grab it from the Sun). This is then stored in a big tank so you can have hot showers and so on. Solar collectors can pick up the Sun's heat even on cloudy days. The Wind Power: It can drive a turbine with a propeller (like some airplanes have) and make electricity. Wind power is getting really important in some countries. Wave power can also drive generators but this is still a very new idea. Just a few experimental machines are in use today.

**The Geothermal Power:** This type of energy is tapped from inside the Earth. It's the only renewable energy source which has nothing to do with the Sun. Deep down, it's very hot. Sometimes these hot rocks break through the surface to form volcanoes. By drilling holes down into areas where hot rocks are close to the surface, people can generate electricity and heat buildings.

Text adapted from: <https://www.alliantenergykids.com/RenewableEnergy/RenewableEnergyHome>

**II. Skimming.** Read the text and find the following concepts. Write the answers below. (Lee el texto y encuentra los siguientes conceptos. Escribe las respuestas debajo de cada pregunta. 1 pt cada respuesta)

a. 2 examples of non-renewable energy.

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b. 2 names for renewable energy. (2 de los 3 tipos de energía mencionados en el texto)

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c. 2 sources of renewable energy. (2 fuentes de energía renovable, de donde se extraen)

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d. 2 ways to use the solar power.

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**III. Use the words in the box taken from the text to match them with their corresponding definition given below. (usa las palabras tomadas del texto que se encuentran en el recuadro de abajo, con su correspondiente definición. 4 pts.)**

**SOURCE - COAL - POLLUTION - POWER**

a. A mineral that is made of carbon and used as a fuel. \_\_\_\_\_

b. Mechanical or electrical energy as distinguished from manual labor. \_\_\_\_\_

c. Anything or place from which something comes or is obtained. \_\_\_\_\_

d. The introduction of harmful substances or products into the environment. \_\_\_\_\_

**IV. Discuss the questions. (Responde las siguientes preguntas que expresen tu opinión. 3 pts, 1 cada pregunta)**

a. Do you think it's possible we can use solely renewable energy someday?

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b. What do you think about the use of electric buses in public transport?

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c. What sources of renewable energy did you know before Reading this text?

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**Useful Vocabulary: Renewable Energy Resources (imágenes de apoyo de vocabulario)**



windmills



solar panels

**HARD WORK CONQUERS ALL!**