Group work: Multiple Choice Practice for Energy

Let’s see what you can do. Find a partner and answer the following on the zipgrade. Write both your names on the zipgrade We will go over this tomorrow. Read the article and answer the questions once you are done with this. If you don’t finish, you can finish the article for homework.

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1. Which of the following is a nonrenewable energy resource?

solar   
methane  
hydroelectric  
coal

1. The amount of oil that may become available for use is called oil \_\_\_\_\_\_\_\_.

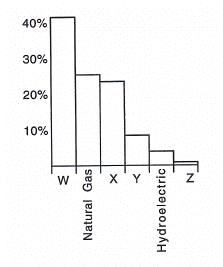
reserves   
reservoirs  
resources  
traps

1. What is the leading source of energy used in the United States today?

coal   
oil resources  
natural gas  
nuclear power

1. The first oil well was drilled in the United States in \_\_\_\_\_\_\_\_.

1829   
1859  
1929  
1959



A histogram showing percentages of various types of energy used in the United States in 1997 is given above.

1. Area W represents

coal   
solar  
nuclear  
oil

1. Area X represents

coal   
solar  
nuclear  
oil

1. Area Y represents

coal   
solar  
nuclear  
oil

1. Area Z represents

coal   
solar  
nuclear  
oil

1. Oil, coal and natural gas supply approximately \_\_\_\_\_\_\_ % of the energy used in the United States

10   
25  
40  
90

1. Of all of the energy produced in the United States, what % is lost in distribution and inefficient use?

10   
25  
40  
50

1. Chemical reactions triggered by \_\_\_\_\_\_\_ transform organic material into hydrocarbons.

solar energy   
hydroelectric  
elevated temperatures  
decomposition

1. Energy resources derived from natural organic materials are called \_\_\_\_\_\_\_\_.

geothermal energy sources   
fossil fuels  
biomass  
all of these

1. A permeable rock that contains hydrocarbon fluids and gasses is called a(n) \_\_\_\_\_\_\_\_\_

oil trap   
source bed  
oil reservoir  
none of these

1. Which of the following rock types would most likely be the best oil reservoir?.

granite   
shale  
sandstone  
salt

1. Two-thirds of the world's known oil reserves are located in \_\_\_\_\_\_\_\_.

Siberia   
Gulf of Mexico and Caribbean  
the middle East  
Indonesia

1. The world has the least amount of which of the following fuel types..

oil   
coal  
uranium  
there are roughly equal amounts of each of these fuels

1. At the current rate of world use, the remaining oil will be depleted in approximately \_\_\_\_\_\_ years.

25   
100  
400  
2000

1. Which of the following statements is true?

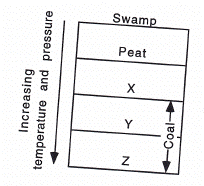
in the US oil production is greater than oil consumption   
in the US oil production equals oil consumption  
in the US oil production is less than oil consumption

1. Most of the natural gas used in the United States is consumed by \_\_\_\_\_\_\_.

industry   
residential use  
electrical utilities  
transportation

1. Burning of which of the following fuels produces the least amount of carbon dioxide per unit of energy?

coal   
oil  
natural gas  
all of these produce the same amount of carbon dioxide.



1. Layer X is \_\_\_\_\_\_\_\_\_.

anthracite   
bituminous  
lignite  
tar

1. Layer Y is \_\_\_\_\_\_\_\_\_.

anthracite   
bituminous  
lignite  
tar

1. Layer Z is \_\_\_\_\_\_\_\_\_.

anthracite   
bituminous  
lignite  
tar

1. In addition to increasing temperature and pressure, the arrow to the left of the diagram represents increasing \_\_\_\_\_\_\_\_\_\_

metamorphism   
heat value  
carbon content  
all of the above

1. Which country contains about 50% of the world's coal resources?

United States   
China  
Canada  
the former Soviet Union

1. In the United States, coal resources should last approximately \_\_\_\_\_\_ years at the current rate of use.

25   
100  
400  
2000

1. Which of the following problems is associated with the burning of coal?

acid rain   
carbon dioxide emissions  
ash with toxic metal impurities  
all of these

1. Oil derived from coal, oil shales or tar sands is called \_\_\_\_\_\_\_\_.

natural gas   
biomass  
syncrude  
none of these

1. Nuclear energy is derived by \_\_\_\_\_\_\_\_\_\_\_.

combustion of atoms of U 235   
fission of atoms of U 235  
fusion of atoms of U 235  
the breaking of U 235 bonds

1. Which of the following energy sources does not produce carbon dioxide?

oil   
Uranium  
coal  
natural gas

1. About how many nuclear power plants are there in the US?

10   
100  
250  
500

1. Which of the following statements regarding the nuclear accident at Chernobyl in the Ukraine in 1986 is false?

radioactive debris was blown into Scandinavia and western Europe   
hundreds of square miles of land surrounding Chernobyl was contaminated and made uninhabitable  
food supplies in many countries had to be purified in order to be consumed  
excess deaths from cancer may be in the thousands over the next 40 years

1. Most of the uranium ore in the United States is located in the \_\_\_\_\_

Applachian Mountains   
Basin and Range  
Colorado Plateau  
Great Lakes

1. The world faces an energy crisis because \_\_\_\_\_\_\_\_\_.

world demand for energy will increase   
world oil production will peak and begin to decline  
shortages and the resulting escalation of prices can shock the economic and political order  
all of the above

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