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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