Team Members

Is That Natural? Activity - Worksheet

Class:

| 1 | 3. | |
|----|--|--|
| 2 | 4 | |
| | students do at home, at school, or in the community tes. Each group member should list at least two items. | |
| 1. | 6. | |
| 2. | 7. | |
| 3. | 8. | |
| 4. | 9. | |
| 5. | 10. | |



| | ways that you think engineers are invol | | | |
|----|--|--|--|--|
| 1. | | 3. | | |
| | | | | |
| 2. | | 4. | | |
| | | | | |
| | | | | |
| | 3: Instructions g your calculator, answer the following qu | uestions: | | |
| | - 1 | | | |
| 1. | The current population of the earth is nearly 8 billion people! Eight billion looks like this | | | |
| | 8 | 3,000,000,000 | | |
| | | | | |
| | | ond, how many days would it take you to count t a day. Using your calculator, divide 8 billion by | | |
| 2. | billion? (There are 86,400 seconds in 86,400.) | a day. Using your calculator, divide 8 billion by | | |
| 2. | billion? (There are 86,400 seconds in 86,400.) | a day. Using your calculator, divide 8 billion by every 2 seconds. How many babies are born in | | |
| | billion? (There are 86,400 seconds in 86,400.) It is estimated that 8 babies are born 6 | every 2 seconds. How many babies are born in ands. Multiply this number by 8.) our? (Multiply the last answer by 60.) | | |
| 3. | billion? (There are 86,400 seconds in 86,400.) It is estimated that 8 babies are born eminute? (Divide 60 seconds by 2 seconds.) How many new babies are born in 1 had a second | every 2 seconds. How many babies are born in ands. Multiply this number by 8.) our? (Multiply the last answer by 60.) ay? (Multiply the last answer by 24.) | | |
| 3. | billion? (There are 86,400 seconds in 86,400.) It is estimated that 8 babies are born eminute? (Divide 60 seconds by 2 seconds. How many new babies are born in 1 had been ma | a day. Using your calculator, divide 8 billion by every 2 seconds. How many babies are born in ands. Multiply this number by 8.) our? (Multiply the last answer by 60.) ay? (Multiply the last answer by 24.) | | |





| Name: | Date: | Class: |
|-------|-------|--------|
| | | |

Part 4: Petroleum

Fossil fuels are the main source of energy on our planet. Altogether, 90% of the energy humans consume comes from fossil fuels. Petroleum, a type of fossil fuel, is one of the most valuable sources of energy on Earth.

The word *petroleum* comes from the Lain words *petra*, which means "rock," and *oleum*, which means "oil." Thus, petroleum literally means "oil from rocks." Petroleum means both the liquid and natural gas resources that we use for our energy needs. We measure the production and consumption of petroleum in terms of barrels. One barrel of oil contains 42 gallons.

Much of the oil we use is found is reservoirs deep below Earth's surface. This type of oil is the easiest type to get out of Earth and the easiest to process into useful forms. Scientists estimate that originally Earth has about 2,390,000,000,000 (2 trillion, 390 billion) barrels of conventional (that is, light of medium-weight) oil.

Since 1968, humans have produced about 22,000,000,000 (22 billion) barrels of oil each year. Each day nearly 93,000,000 (93 million) barrels of oil are consumed. Oil is so important to our day-to-day lives that it has become one of the major factors in relations between nations.

Answer the following questions:

| 1. | Is petroleum a renewable or nonrenewable energy source? |
|----|---|
| 2. | Given the estimated daily world consumption of oil, 93,000,000 (93 million) barrels, about how many days would it take for the world to consume 1,000,000,000 (1 billion) barrels of oil? |
| 3. | Scientists believe that we could produce oil at the present rate for 30 to 40 more years. What do you think the impact of lower oil reserves will be? |
| | |
| | |
| | |
| | |

Adapted from: Glencoe Science - An Introduction to the Life, Earth, and Physical Sciences, Glencoe/McGraw-Hill, Ohio, 1999, Enrichment p.26.



