

10 Sources of Energy

KEY

Pre/Post Poll-Circle the best answer

1. Why are some energy sources called renewable?
 - a. They are clean and free to use.
 - b. They do not produce pollution.
 - c. They can be replaced by nature in a short time.**
2. Which energy source is renewable?
 - a. Coal
 - b. Solar**
 - c. Nuclear
3. Which energy source is a result of the uneven heating of the Earth's surface?
 - a. Wind**
 - b. Geothermal
 - c. Solar
4. Which energy source provides the most electricity?
 - a. Propane
 - b. Petroleum
 - c. Coal**
5. Which energy source provides gasoline for cars?
 - a. Petroleum**
 - b. Propane
 - c. Natural gas
6. Which energy source depends on the water cycle?
 - a. Hydropower**
 - b. Solar
 - c. Wind
7. Describe one advantage of renewable resources.
Various answers-they never run out, the source is free, no air pollution/greenhouse gases
8. Describe one disadvantage of renewable resources.
Various answers-the technology to use the resource is expensive, not reliable for baseload power/they can be limited by weather or time of day, they are not very energy dense/must have a lot to meet electricity demands,
9. Describe one advantage of non-renewable resources.
Various answers-inexpensive (compared to renewables), reliable for baseload power 24/7/365, energy dense/can produce a lot of electricity
10. Describe one disadvantage of non-renewable resources.
Various answers-once they are used they are gone forever, air pollution/greenhouses gases when burned (fossil fuels), radioactive waste (nuclear), political challenges between countries

Bonus Question:

- a. Is there a perfect source of energy? b. What is the best source of energy?
- a. no b. accept answers if student can defend their selection