

Name \_\_\_\_\_

Score \_\_\_\_\_ / 30 points

## Modern Marvels: Renewable Energy

1. \_\_\_\_\_ What type of energy conservation method does FedEx in Oakland, CA use in their business?
2. **True or False** A solar power system can actually turn electric meters backwards.
3. **True or False** Solar power is mostly maintenance free.
4. \_\_\_\_\_ How many hours of sunlight would it take to provide mankind with all of its energy needs for a year?
5. \_\_\_\_\_ In which direction did the Anastasy Indians face their houses to collect the solar energy?
6. \_\_\_\_\_ The single most energy usage in the home is in the process of \_\_\_\_?
7. \_\_\_\_\_ This famous scientist proved that light could be converted to electricity.
8. \_\_\_\_\_ Where do satellites in outer space derive their electrical energy from?
9. \_\_\_\_\_ What are clusters of wind turbines called?
10. **True or False** North and South Dakota have enough wind to power the US.
11. **True or False** Windmills have always been used to generate electricity.
12. \_\_\_\_\_ The \_\_\_\_ the turbine, the more energy it can produce.
13. \_\_\_\_\_ Besides on land, wind turbines are being placed in the \_\_\_\_ too.
14. \_\_\_\_\_ Where does geothermal energy come from?
15. \_\_\_\_\_% What percentage of the world's energy could be supplied by geothermal means?
16. **True or False** Not everyone in the world can use a form of geothermal energy.
17. **True or False** The first plant to use geothermal energy was in 1904.
18. \_\_\_\_\_ Diesel cars can be converted from using gasoline as fuel to using \_\_\_\_.
19. \_\_\_\_\_% What percentage of the world's greenhouse gases come from automobiles?

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20. \_\_\_\_\_ Corn and sugar cane are used to produce what kind of fuel?
21. **True or False** When cars were first produced, they were made to run on ethanol.
22. **True or False** Under 35 mph, hybrid cars use no gas.
23. \_\_\_\_\_ The problem right now with “plug-in cars” is that the electricity they need is generated by burning \_\_ \_\_.
24. \_\_\_\_\_ The future of hydro-power will come from the \_\_ rather than rivers, like today.
25. **True or False** Tidal power is a brand new technology.
26. \_\_\_\_\_ Which is more powerful? A water turbine or a wind turbine?
27. **True or False** A relatively small area off the coast of Great Britain could power their whole country with wave power.
28. **True or False** In the future the world will likely get its electricity using ONLY renewable energy resources.
29. \_\_\_\_\_ The conservation of \_\_\_ is the easiest way to limit the amount of greenhouse gases going in to the atmosphere.
30. **True or False** Every region of Earth has some method to supply renewable energy!