

## Energy Test Review Sheet

Name:

Mrs. Wiley's Key

1. How does a geothermal power plant get energy?

pump heated water or steam from deep within the Earth

2. Why could hydrogen be a future fuel source?

abundant, can be burned, can be ~~burned~~ <sup>used</sup> in fuel cells

3. What sources of energy does a hybrid car use?

an efficient gasoline engine & an electric motor

4. Give an example of how biomass fuel is used.

Can be decomposed into methane, can be fermented into alcohol

5. What is renewable energy?

energy that can be replenished as fast as we're using it.

6. What is a benefit of wind turbines?

use little space, cost effective

7. What is the energy from fossil fuels converted into?

electricity

8. What is an advantage of nuclear energy?

no air pollution

9. What is an advantage of using fossil fuels for energy?

~~increased fuel capabilities~~ Versatility in uses

10. How is coal formed?

heat & repeated compression of plant matter by sedimentation over millions of years in swamps

11. Name a country that uses the least amount of energy per person.

Argentina

12. Why are fossil fuels not considered renewable resources?

we use them faster than they are made.

13. How can you help conserve energy at home?

use cold water to wash clothes

14. What is the difference between energy efficiency and energy conservation?

ec- 90% of energy put into a system that does useful work.

ec- saving energy

15. How do geothermal heat pumps heat homes?

heated water/steam is pumped from the warm ground.

16. What is a disadvantage of wind energy?

can't transport electricity

17. What are the most energy efficient vehicles available today?

hybrids

~~\*not electric~~

18. What are wind, plant growth, and the water cycle powered by?

the sun

19. What is increasing the amount of insulation in a home an example of?

energy conservation

20. Gasohol and ethanol from corn, is an example of what fuel?

biofuels

21. Wind turbines convert the movement of wind into what?

electricity

22. What is hydroelectricity generated from?

moving water

23. Why are fewer nuclear power plants being built today?

because nuclear power plants are too expensive now.

24. How do oil and natural gas form?

the remains of <sup>mostly methane</sup> marine organisms - millions of years

25. What is most of the energy consumed in the United States is used for?

industry

\*26. How have energy needs for the United States changed? (risen, fallen?)

Risen slightly

27. What is a nuclear reactor?

thick, strong container - filled w/ cooling fluid.

28. What is nuclear fusion?

combines nuclei. VERY HIGH TEMPS!

29. Where is solar energy contained?

fossil fuels

30. What is fuel's suitability dependent on?

energy content, cost, availability