

# Wind Farm Quiz

NAME \_\_\_\_\_

## WHAT DO YOU KNOW ABOUT WIND FARMS?

Circle the letter of the correct answer to each question.

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1. Centuries ago wind power was used to:
- a. grind grain
  - b. pump water
  - c. travel on water
  - d. all of the above
2. Near the equator, the amount of energy that the earth receives from the sun is the:
- a. same as the North and South Poles
  - b. less than the South Pole
  - c. more than the North and South Poles
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3. When air warms:
- a. its molecules move faster
  - b. its molecules spread apart
  - c. it rises into the atmosphere
  - d. all of the above
4. Wind is caused by:
- a. tall buildings and mountains
  - b. uneven heating of the earth's surface
  - c. the jet stream
  - d. ocean currents
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5. Examples of electrical energy are:
- a. the sun's rays
  - b. lightning
  - c. electricity
  - d. b and c
6. Wind is an example of
- a. kinetic energy
  - b. potential energy
  - c. mechanical energy
  - d. none of the above
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7. Examples of all renewable energy are:
- a. biomass, wind and propane
  - b. hydropower, biomass and solar
  - c. natural gas, geothermal and wind
  - d. uranium, wind and biomass
8. Wind turbines are built on tall towers because:
- a. it's safer
  - b. it's quieter
  - c. the wind moves much faster 100 feet or more above the ground
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9. A wind farm needs average wind speeds of at least:
- a. 50 miles an hour
  - b. 11-13 miles an hour
  - c. 20-25 miles an hour
10. Wind is a desirable energy source because it is:
- a. clean and creates no greenhouse gases.
  - b. free
  - c. found everywhere
  - c. a and b
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11. The amount of electricity a turbine produces depends on its:
- a. size and the speed of the wind
  - b. distance from the nearest transmission line
  - c. none of the above
12. A strong transmission system is important for the expansion of wind energy because:
- a. it carries wind energy to where it is needed
  - b. it connects many power plants, so electricity can be reliable when the wind doesn't blow
  - c. all of the above
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