

Name _____

Modern Marvels

Batteries

All questions must be answered with data from the video.

The questions are in order.

1. Batteries convert what type of energy into electrical energy?
2. Between the two electrodes the anode and cathode, which is positive and which is negative?
3. A cell is single unit capable of producing electricity. What does it take to have a battery?
4. Why is it so important for Fairbanks, Alaska to have a large battery back up?
5. Why are D cells and other batteries a cylinder shape?
6. What does the larger size of the D cell give it over a AA battery?
7. What are the most common consumer battery sizes?
8. What is Tesla Motors?
9. What does the Rev. Gadget do?

10. Where are lead acid batteries used?
11. Briefly describe the process of making a lead acid battery.
12. Why are car batteries not stored with the electrolyte solution?
13. How many AA Oxy Nickel Hydroxide batteries were needed for the first manned flight powered by dry cell batteries?
14. What can nanobatteries be used for?
15. How big is a picoamp?
16. What electrolyte is used in a biodegradable credit card sized battery developed in Singapore?
17. What types of batteries have been used on space crafts?
18. Why do crafts landing on Mars need air bags when landing?
19. By 2012 what country will account for half the lithium ion battery production?
20. Why is it bad to throw batteries in landfills?