1. What fuel does Alan Alda claim can be made in unlimited quantities? **hydrogen**

2. What device are car companies planning to use in the future to convert hydrogen to electricity to run cars?
   - **fuel cells that produce electricity from hydrogen and air**

3. When Alda sniffs the tail pipe, what does he say it smells like? **fresh laundry**

4. The Ford Focus has what kind of engine in it? **combustion engine that runs on hydrogen**

5. What are the two roadblocks to the widespread use of hydrogen as a fuel?
   - a. **having an adequate method for getting the hydrogen**
   - b. **having an adequate system for the storage and distribution of hydrogen**

6. How does Stan Ovshinsky think hydrogen should be stored for vehicles? **in metal hydride solids**

7. Where do the Ovshinsky's have their corporate headquarters? **Detroit, Michigan**

8. What type of battery is discussed? (Note: Stan is the inventor of it.) **Nickel metal hydride (NMH)**

9. How many different elements are in the compound used to store the hydrogen? **7 or 8**

10. Why does the canister get hot when it’s filled with hydrogen? **An exothermic chemical reaction occurs when the hydrogen is added to the power in the canister.**

11. How does Ovshinsky solve the heat problem? **by using cooling water and a heat exchanger**

12. Which country wants to be the first to run itself on hydrogen? **Iceland**

13. What is the population of that country? **around 300,000 (compared to the 310 million in the US)**

14. What natural, renewable source of energy is available to that country which will enable their switch to hydrogen? **geothermal**

15. What oil company is a sponsor of the filling station in the capital city? **Shell (Royal Dutch Shell)**

16. What is used to make the hydrogen at the filling station? **an electrolyzer**

17. Who owns the van that filled up at the station? **Daimler-Chrysler from Germany**


19. What energy source does Ovshinsky think should be used to make hydrogen? **solar**
20. What are most solar cells made from? silicon
21. What does Ovshinky use to make solar cells? metal hydrides
22. In what ways are Ovshinsky’s solar cells better than conventional solar cells?
   1. They can operate even under low light conditions.
   2. They are easily made in long segments.
   3. They are very durable, not easily damaged.
23. In what ways are Ovshinsky’s solar cells not as good as conventional solar cells?
   They are less efficient under bright sunlight conditions than conventional materials.
24. What is the green stuff in the plastic triangular tubes? algae
25. What are the bubbles in the tubes? carbon dioxide and other flue gasses from the coal power plant
26. How often is the stuff harvested? every day
27. What is removed from the gasses? carbon dioxide and nitrous oxides
28. What can we do with the green stuff after it is harvested? Process it to be used as fuel, store it, drink it