

NOVA Car of the Future

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Name: _____ Hour: _____ Date: _____ Score: _____

1. How many cars exist on earth? _____
2. How much of our transportation system is fueled by petroleum? _____
3. How many vehicles are expected to exist by the year 2050? _____
4. Since 1985, the average vehicle weight has increased by _____ pounds. Horsepower has _____
5. How long will carbon dioxide molecules stay in the atmosphere after they leave your tailpipe? _____
6. How many gas stations are in the country right now? _____
7. What island nation is trying to replace gas-powered vehicles with hydrogen-powered cars? _____
8. How much does gas cost per gallon in Iceland? \$ _____ /per gallon.
9. What are three problems associated with hydrogen cars? They're too _____
The fuel cells are not _____ enough, and how do you store a sufficient
amount of _____ on board the vehicle.
10. How is hydrogen made for a hydrogen fuel cell? _____

11. What powers the creation of pure hydrogen in Iceland? _____
12. In Brazil, ethanol produced from sugar cane now provides _____ percent of the nation's motor fuel.
13. It is very _____ to grow corn and extract energy from it.
14. There's really not much question, this is a _____ motor fuel.
The question is, how _____ can we make it, and how much of it can we make?
15. What part of the corn plant do we currently use as fuel? _____
16. What is cellulosic biomass? _____
17. Like all plants, switchgrass pulls _____ from the atmosphere in order to grow.