

Name: \_\_\_\_\_

## **Earth the Operator's Manual: Powering the Planet**

1. How does concentrated solar power work?
2. Which country would still be able to power their vehicles if all the gasoline in the world suddenly disappeared? What fuel do they use instead?
3. In the country from #2: what was the key to actually getting alternative fuel to be used by vehicles? E.g. what was the key to developing and implementing infrastructure, etc?
4. What are some keys to solving the “not in my backyard” problem of installing wind turbines? There are a few mentioned for both Denmark and West Texas installations.
5. What two pieces of data did Richard Alley obtain (and display in the video) by analyzing ice cores?
6. To what crazy combination of adventure/amusement activities does Richard Alley liken the abrupt swings in past temperature? What point do you think he's trying to get across?
7. Which nation invested the most in renewable energy in 2010? Why is this a good thing? (Are they a large user of fossil fuels at the moment? If so, which one in particular?)

8. What is the lesson in the analogy of toilets/plumbing in Scotland to the CO2 problem now? Is it a hopeful one?

9. What is the problem with the 2 year election cycle in the U.S.? Are there ways to overcome this, perhaps at a local level rather than federal level?

10. Which renewable energy has the potential to provide the greatest amount of energy?