Weathering and Soils **Name** _____

http://www.learner.org/resources/series78.html

Note - Most of the folks in this film are engineering geologists not hairy geologists.

1. Why is the obelisk in Egypt doing so much better than the obelisk that was moved to New York City?

2. That granite that the narrator crumbles doesn't behave at all like a granite countertop. Why not?

3. How does pressure release lead to jointing? (Don't you want to go exploring this area?)

4. What does the glass bottle in the freezer have to do with bad roads and rocks?

5. How can simple rain lead to the disintegration to rocks?

6. The rock _____ is most susceptible to being broken down by slightly acidic water.

7. Why is weathering slower in the desert than in the tropics?

8. Why do the minerals in granite weather at different rates? (This is such a cool idea!)

Grus - A word you will probably never use... except in Scrabble or Words with Friends.

9. What are two causes and two effects of human-caused acid rain? (Nations agreed to restrict the pollutants that caused these problems, and, in many areas, those problems are gone or reduced.)

Cause 1 Effect 1

Cause 2 Effect 2

10. What would happen if apatite did not weather? (This gets personal!)

11. Describe each of the horizons and what happens there.

A) B) C)

12. How is soil from granite different from soil formed from basalt?

13. To form a meter of soil in the midwest, takes about ___ years while in the tropics may take only ____ years.

14. Considering soil nutrients, why is cutting down tropical rainforest in order to plant crops really stupid?

Hey! A movie geologist without a beard!

15. Describe briefly 2wo ways humans can reduce the soil loss that we cause.

a) b)