9. Madame Curie:

10. Two radiometric dating techniques:

Answer the following questions:

1- Fossils form in may ways. Describe how each of the following form:
a) Molds
b) Casts
c) Trace Fossils (Evidence of Critters)
2- The Fossil record is best preserved where? Why?
3- Name 2 reasons why terrestrial fossils are relatively rare.
4- What are stromatolites? Why are they important? What is another name for them?
5- Why could critters finally come out of the ocean onto the land?
6- Why did oxygen increase and carbon dioxide decrease?
7- When did Pangea form? The formation of Pangea coincided with what major event in Earth History?
8- Name 2 pieces of evidence for warm blooded dinosaurs.
9- Name 2 theories on what killed the dinosaurs?
10- What kind of critters are in the La Brea Tar Pits?
11- What the heck is Punctuated Equilibrium?

Answer the following questions:

- 1. Different geologists use minerals in different ways. Explain how the following geologists use minerals in their field of study.
  - a. Geochronologist
  - b. Sedimentologist/Stratigrapher
  - c. Igneous and Metamorphic Petrologist
  - d. Structural Geologist
- 2. How many varieties of minerals exist? Of these minerals, how many common minerals exist?
- 3. Name the common minerals. What are these minerals known as?
- 4. Name three different physical properties and how they could be used to identify a mineral. Please include a mineral in the discussion of the property.
- 5. Explain how a mineral is prepared for an x-ray diffraction study.
- 6. Explain the physical and chemical differences between Diamonds and Graphite.
- 7. What kind of conditions exist for the formation of gold, silver and copper (in other words, how do they form)?
- 8. What the heck is a hydrothermal ore deposit?
- 9. What is the most common group of minerals?
- 10. What properties make silicon special?

10. What is a fumerole?

A. CONTINENTAL CRUST

B. OCEANIC CRUST

C. MANTLE

Answer the following questions:

- 1. What is mechanical weathering?
- 2. What is ice wedging?
- 3. What is the difference between mechanical weathering and chemical weathering?
- 4. What is the main agent, or cause, of chemical weathering?
- 5. Would a wet climate cause more or less chemical weathering?
- 6. Would a cold temperature cause more or less chemical weathering?
- 7. What is humus?
- 8. What is the term for the layers of soil?
- 9. Why are most minerals leached away in the rain forest?
- 10. When did the Dust Bowl of the American midwest occur?
- 11. What happened to the soil during the Dust Bowl?
- 12. What is a windbreak?

Bonus: What type of soil does bedrock containing feldspar produce?

Mass Wasting Quiz (ER#16)	Name_
Answer the following questions:  1. Which is NOT used to categorize types.	
<ul><li>a. composition of the rock</li><li>b. composition of the air</li></ul>	c. manner of movement d. speed of movement
2. Creep is caused by	
<ul><li>a. wind and rain</li><li>b. fire and ice</li></ul>	c. gravity and water d. gin and tonic
3. True or False. Creep is so slow that i	t never causes any damage.
4. True or False. A slump area becomin mass wasting.	g a landslide area is an example of the transitional nature of
5. True or False. Because of their high darge boulders and even cars.	lensity and viscosity, some mud and debris flows can move
6. True or False. Mass wasting is never	a concern for home owners or land developers.
7. Avalanches can have speeds of over	
a. 100 km/hour b. 1000 km/hour	c. 10000 km/hour d. 100000 km/hour
8-13. Put these types of mass wasting in Avalanche, Creep, Landslide, Mud and	n order by speed, from slowest to fastest. Debris Flows, Rock slide, Slump
SLOWEST 811	
912	
1013	

Ronus

What is the name for the rock-filled cages used to prevent wave erosion?

Farth Povaled #17. Sodimentary Podrs	Nama
Earth Revealed #17: Sedimentary Rocks  Answer the following questions:  1) What four agents deposit and transport sediments?	Name
2) Give the range of sizes of particles for clastic sediments.	
3) Define: Lithification	
4) What are evaporites?	
5) How do evaporites form?	
6) How and where does limestone form?	
7) How and where is chert formed?	
8) Name four sedimentary structures.	
9) How do crossbeds form?	

10) Make a pretty diagram showing crossbeds and the direction of current flow.

11) Name several characteristics of a Lake deposit.