

Mastery Opportunity - Physical Resources

Mastery assignments are optional, but are due on the day of the test.
Choose any two of the following four assignments.

Option 1:

1. What is the rock cycle?
2. How are igneous rocks formed? (2 steps)
3. What is the difference between intrusive and extrusive igneous rock?
4. How do sedimentary rocks form?
5. How are clastic sedimentary rocks classified?
6. What are organic sedimentary rocks made of?
7. How do chemical rocks form?
8. What are coal and limestone made of? (specifically)
9. How are metamorphic rocks formed?
10. What is a porphyry?
11. What is the difference between regional and contact metamorphism?

Option 2:

Create a soil profile sketch that includes labels, name of each layer, and a detailed description of each layer. The sketch must be in color and be no smaller than 8.5" X 5.5" (half a piece of paper).

Criteria:

- * show all 4 layers
- * Must provide the following information for each layer: Letter, Name, Quality description
- * DETAIL shown in each layer
- * color
- * overall neatness and quality



Option 3:

Create a cartoon strip that details the experiences of the main character – a rock - on its journey along the rock cycle.

You can base this on the steps/stations from the rock cycle lab that we did in class.

Criteria:

- * detailed information (picture & words) in each frame of the cartoon strip
- * color
- * minimum 8 steps along the rock cycle
- * minimum 8 frames to the cartoon strip

Option 4:

1. What is weathering?
2. List and DESCRIBE the two main types of weathering.
3. What is ice wedging?
4. How can organic activity cause weathering?
5. What is abrasion?
6. What is hydrolysis?
7. What is the difference between porosity and permeability?
8. What is the difference between a soil profile and a soil horizon?
9. What is leaching?
10. Which horizon has the most nutrients?

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