

HOMEWORK #2 – Sediments, extinctions, and ages**Due Tuesday, September 22nd IN CLASS**

Answers to the questions must be given in complete sentences (except where indicated), using correct grammar and spelling. Please be as brief and to-the-point as possible (*more is not necessarily better*).

You are encouraged to explore the web for help but **DO NOT COPY DIRECTLY FROM WEBSITES**. Links posted on the course website may also be helpful in answering some of the homework questions.

Homework assignments must be legible. Handwritten or typed responses are permitted. Make sure that your assignment is stapled!

Grading Summary:

Question 1:	6 points
Question 2:	11 points
Question 3:	13 points
<u>Question 4:</u>	<u>10 points</u>

Total: 40 Points

1. Sedimentary Structures (6pts)

Name three structures in sedimentary rocks that result from the deposition of sediments. Provide a short definition (1 sentence) of each.

2. Unconformities (11 pts)

A. How many types of unconformities are there?

B. Make a simple sketch (and label) each one:

3. Geologic Relative Age Dating (13 pts)

List the order in which the layers/features in the following figure were formed/deposited. Make your list by numbering the names below from oldest = 1 to youngest = 13.

Note: a fault is a crack through the layers, along which the layers have moved. A fault can only cut through layers that were there before the fault formed.

- | | | | |
|-------|-------------------------|-------|----------------|
| _____ | Mesa limestone | _____ | Reed gneiss |
| _____ | University conglomerate | _____ | Lee basalt |
| _____ | Schuster gypsum | _____ | Oregon Granite |
| _____ | Zaragosa Shale | _____ | Unconformity A |
| _____ | Hawkins limestone | _____ | Unconformity B |
| _____ | Resler sandstone | _____ | Unconformity C |
| _____ | Fault | | |



