

FALL 2014 GEOLOGY 21b RESEARCH PROJECT

**All homework projects may be turned in early, but will not be accepted late. The deadline for all research projects is 6 am, Friday, November 21st. Research projects should be delivered via e-mail or thumbdrive and must be accompanied by all the following pages.

Possible topics:

- Formation history and weathering characteristics of:
 - Chert
 - Shale
 - Serpentinite
 - Basalt
 - Sandstone
 - Granite
- Submarine Canyons – What are they? How do they form? Where are they around San Francisco? How do they affect sand migration?
- Sand dunes – What are they? How do they form? Where are they around San Francisco? How do they affect sand migration?
- City of Pacifica Coastal Policies – Historic and Today
- Mussel Rock Landslide
- Sand formation
- Golden Gate Bridge – When was it built? How? What were the challenges?
- Fort Point – History
- Fort Funston – History
- Sutro Baths – History
- Landslides
- *You may propose your own topic, only with approval of instructor.*

Assignment structure:

- Spend some time researching your topical choice (see above for categories) through journals, papers, or online. (Keep track of sources and record in bibliography).
- Communicate what you've learned through a word document or Power Point. Use graphics (though always indicate where you got them from).
- Feel free to be creative with your completed project – you can use narrative, tell stories, but you must include sufficient facts and explanations.
- The length of your project depends on you, but it should take me no more than 5 minutes to review/read it. And I'm expecting it to take you no more than 5-6 hours of focused attention.
- REQUIREMENT – your submission must be your OWN work, whether in words or images. *(If it is discovered that you are using other people's words or images or work without giving them credit, you will not only get a 0 for this assignment, but a letter of reprimand in your student file.)*

.....

Student Name: _____

If your project is chosen to be put online, do you give permission to do so? (Circle: Yes / No)

If your project is chosen to be put online, do you give permission to use your name? (Circle: Yes / No)

Signature and date (if answers are YES): _____

MASTER GRADING RUBRIC

| | | |
|-------------------------|---|--------------|
| Student name: | | |
| Grading area | Grade | Grade |
| Effort | 2 pts if effort clearly put into project 1 pt if moderate effort was put into project 0 pts if the assignment clearly was copied or put together at the last minute | |
| Content | 2 pts if the content is accurate and there is a sufficient amount of it 1 pt if there is minimal content 0 pts if no actual scientific content is included | |
| Sources | 2 pts if all sources cited properly (including images) 1 pt if source citations are insufficient 0 pts if there are no citations of sources | |
| Communication | 2 pts if the project clearly communicates a message 1 pt if some of the project's message is difficult to understand 0 pts if it is difficult to understand any of the message of the project | |
| Enjoyment factor | 2 pts if the project energizes the audience and engages them, pulls them in 1 pt if the project is moderately engaging 0 pts if the project is not engaging at all | |
| | TOTAL | |

You must get a minimum of 8 pts out of 10 to get a B and 9 pts out of 10 to get an A.

Comments?