

HIGH SCHOOL EARTH SCIENCE A
Course Outline: 4301

I. Textbook Assignment Options:

- A. *Science Insights: Exploring Earth and Space, Part I (5.0 credits)*
- Read: Chapters 1-13.
 - Complete: all “Check and Explain” exercises at the end of each section.
 - Complete: “Chapter Review” exercises (**Omit:** “Make Connections”)
 - Complete one of the Extension Activities listed below.
- B. *Exploring Earth and Space: Earth Science, Part I (5.0 credits)*
- Read: Chapters 1-12.
 - Complete: all “Section Review” exercises.
 - Complete: “Chapter Review” exercises (**Omit:** “Going Further” activities).
 - Complete two of the Extension Activities listed below.
- C. *Modern Earth Science, Part I (5.0 credits)*
- Read: Units 1-4.
 - Complete: all “Section Review” questions.
 - Complete: “Chapter Review” exercises (**Omit:** “Application” and “Extension” Activities).
 - Complete two “Small-Scale Investigation” activities from Units 1-4 **or** one of the Extension Activities listed below.
- D. *Glencoe Earth Science, Part I (5.0 credits)*
- Read: Units 1-4.
 - Complete: all “Section Wrap-Up” exercises.
 - Complete: “Chapter Review” exercises (**Omit:** “Developing Skills” and “Performance Assessment”).
 - Complete one of the Extension Activities listed below.

II. Extension Activity Options: (All writing assignments should meet rubric EXP. HS standards).

1. Using at least 3 different sources, conduct research on plate tectonics. If using the Internet, try the term “plate tectonics” or “USGS Plate Tectonics” as your search key. Complete a PowerPoint presentation of at least 10 slides or write, edit and type a 1-page essay based upon your research. Include a bibliography. Your project should include information on:
 - Continental Drift
 - Theory of Pangaea
 - Sea Floor Spreading
 - Types of plate boundaries

HIGH SCHOOL EARTH SCIENCE A

2. Use the Internet to research Earth's history through geologic time. You may want to use the following key term as your initial search guide: "USGS geologic time." Write, edit and type a one-page essay, **or** create a 10-slide PowerPoint presentation based on your research, **or** create a timeline of the 4 major time periods that includes major occurrences and life forms (at least 20 total) during each time period. You will need to conduct secondary searches for each time period to obtain all of the required information. Include a bibliography listing the Websites used in your research.
3. Using the Internet or the library, conduct research on the Tehachapi Earthquake of 1952. If using the Internet, you will find a number of websites if you use the search term: Tehachapi Earthquake 1952. You may write a 1-page essay or prepare a 10-slide PowerPoint presentation that includes at least 3 photos based upon your research. Include the causes and consequences of damage of the 1952 earthquake, the likelihood of another such quake occurring, and what, if anything is being done to prevent such damage from occurring again.
4. Teacher generated activity, approved by the site administrator.

III. Evaluation

- See your teacher for a unit test.
- All Writing assignments must meet the proficient level of the rubric provided by the teacher.
- All textbook work must meet 70% accuracy level for a "C" grade.