



HIGH SCHOOL EARTH SCIENCE B  
Course Outline: 4302

**I. Textbook Assignment Options:**

A. *Earth Science: Geology, the Environment, and the Universe, Part II (5.0 credits)*

- Read: Chapters 17-31.
- Complete: all “Section Assessment” exercises at the end of each section.
- Complete the following sections of each Chapter Review:
  - Understanding Main Ideas
  - Applying Main Ideas
  - Standardized Test Practice
- Complete one of the Extension Activities listed below.

B. *Modern Earth Science, Part II (5.0 credits)*

- Read: Units 5-8.
- Complete: all “Section Review” questions.
- Complete: “Chapter Review” exercises (**Omit:** “Application” and “Extension” activities).
- Complete two “Small-scale Investigation” activities from Unit 5-8 **or** one of the Extension Activities listed below.

C. *Glencoe Earth Science, Part II (5.0 credits)*

- Read: Units 5-7.
- Complete: all “Section Wrap-Up” exercises
- Complete: “Chapter Review” exercises (**Omit:** “Developing Skills” and “Performance Assessment”).
- Complete one of the Extension Activities listed below.

D. *Earth Science, Holt, Part II (5.0 credits)*

- Read Chapters 16 – 28.
- Complete Maps in Action sections when they appear in the chapters
- Complete Section Reviews, except for Critical Thinking and Concept Mapping
- Complete the following sections of each Chapter Review:
  - Understanding Key Concepts
  - Select and complete one Critical Thinking Question
- Complete the Chapter “Standards Assessment” for each chapter
- Complete one of the Extension Activities listed below.

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

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1. Use at least 3 sources to conduct research on the Solar System. These may include the Internet, a library book, or another media resource. If using the Internet, the search term: “solar system exploration NASA” will give you some information. Write, edit and type a 1-page essay, or prepare an 10-slide PowerPoint presentation based upon your research. Your project should include information about each of the major planets in our solar system, and if completing the PowerPoint, each slide should contain a photo and at least a 1-line description. Your project should include information related to:
  - Origin and Formation
  - Structure and Function
  - Distance and Scale
  - Change over Time
2. Complete a PowerPoint presentation on Weather and Climate. This presentation should include information from at least 3 sources other than your textbook. Create at least 10 slides in your presentation covering all of the following topics:
  - How water enters and leaves the atmosphere
  - A description of humidity vs. dew point
  - Cloud Formation
  - Air Masses
  - Weather Fronts and Storms
3. Using at least 3 different sources, research **three** of the major oil spills that have occurred in the world and prepare a report on the environmental and economic effects of those oil spills. You can use the Internet, an encyclopedia, scientific magazine, newspaper or educational programming to help you with your research. Write, edit and type a 1-page report that also contains a bibliography.
4. Use the Internet to research weather forecasting. Detail the technology used to gather data and to create forecast models. Use this information to create a 1-page essay.
5. 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.