



HIGH SCHOOL PHYSICAL SCIENCE A  
Course Outline: 4305

**I. Textbook Assignment Options:**

- A. *Science Insights: Exploring Matter and Energy*, Part I (5.0 credits)
- Read: Chapters 1-12.
  - Complete: Questions 1 and 2 of all “Check and Explain” exercises.
  - Complete: “Chapter Review” exercises (**Omit: Make Connections**)
  - Complete one Extension Activity listed below.
- B. *Glencoe Physical Science*, Part I (5.0 credits)
- Read: Chapters 1-11.
  - Complete: “Section Review” questions 1 and 2.
  - Complete the following Chapter “Review” exercises:
    - a. “Reviewing Vocabulary”
    - b. “Checking Concepts”
    - c. “Understanding Concepts”
    - d. “Thinking Critically”
  - Complete one Extension Activity listed below.
- C. *Exploring Matter and Energy: Physical Science*, Part I (5.0 credits)
- Read: Chapters 1-11.
  - Complete: “Section Review” Definition Exercises.
  - Complete the following “Chapter Review” exercises:
    - a. “Building Vocabulary”
    - b. “Summarizing”
    - c. “Interpreting Information”
    - d. “Think and Discuss”
    - e. “Competency Review”
  - Complete one Extension Activity listed below.
- D. *Science Interactions*, Part I (1.0-5.0 credits: direct instruction or course contract required)
- E. *Conceptual Physical Science*, Part I (1.0-5.0 credits: direct instruction or course contract required)

**II. Extension Activity Options:**

1. Using the scientific method, design an experiment to test any concept discussed in this course. Use at least 10 slides to create a power point presentation that will outline each of the steps in your experiment.

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2. Write a 1-page essay about either nuclear, chemical, electromagnetic or heat energy. Use at least two resources in your research. Discuss how the energy is created, how it is used, and the pro's and con's of that energy form. Use Writing Rubric Exp. H.S.
3. 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.