

GRADE EIGHT SCIENCE B

Course Outline

I. Textbook Assignment Option

A. *Holt Science and Technology, Physical Science (1 Course)*

- Read: Units 4-7.
- Complete: all Section Review questions.
- Complete: “Using Vocabulary” and “Understanding Concepts” in the Chapter Reviews.
- Complete one Extension Activity

B. *Concepts and Challenges in Physical Science (1998 Edition) (1 Course)*

- Read: Units 11-21.
- Complete: “Check” and “Apply” exercises in Lesson Summaries.
- Complete: Unit Challenges: “Tech Terms,” “Content Challenges,” and “Reading Critically” exercises.
- Complete one Extension Activity

C. *Science Explorer, Physical Science (1 Course)*

- Read: Chapters 12-22.
- Complete: Section Review exercises (omit “Thinking Critically”)
- Complete: Chapter Assessments “Reviewing Content,” and “Checking Concepts”
- Complete: one Extension Activity

D. *AGS Physical Science (1 Course)*

- Read: Chapters 1-6.
- Complete: all “Self-Check” or “Lesson Review” exercises.
- Complete: “Chapter Review” exercises.
- Complete one of the Extension Activities.

II. Extension Activities

1. Using the Internet, and the search term “how stuff works rainbows,” conduct research on how rainbows are formed. Write a 4-paragraph essay based upon your research, including a graphic depicting how light and moisture create the rainbow. You can either import a photo from the Internet, or draw one of your own. Use Writing Rubric Exp. III.
2. Complete a PowerPoint presentation of at least 10 slides showing at least two types of bridges and how they work. If you use “bridge building” as a search term, you can find many resources about bridges on the Internet.
3. Research how magnets work. If you use the Internet, use the search term “Canada science museum magnets.” Create at least a 10-slide PowerPoint presentation or write a 4-paragraph essay based upon your research of two different types of magnets. Use Writing Rubric Exp. III.
4. Teacher generated activity, approved by the site administrator.

III. Evaluation

- Unit and/or final test.
- All textbook work must meet the 70% accuracy level for a “C” grade.