

GRADE EIGHT MATHEMATICS A

Course Outline

I. Textbook Assignment Options:

A. *Prentice Hall Algebra I*; Chapters 1-6 (1 Course)

- Complete even-numbered problems under each “Exercises” section. (omit Critical Thinking, Error Analysis, Test Prep and Challenge” activities)
- Complete even-numbered problems in each “Chapter Wrap Up” section.
- Complete one of the following activities:
 1. the two connection activities, Chapters 4
 2. connections activity, Chapter 5
 3. Connections: Discrete Math activity, Chapter 6
 4. application activity, Chapter 2
 5. application activity, Chapter 5

B. *AGS Algebra*; Chapters 1-6 (1 Course)

- Complete all even-numbered problems in each chapter.
- Complete all even-numbered problems in “Review” sections.
- Complete one Application activity from Chapters 4-6.

C. *Pacemaker, Algebra I*; Chapters 1-8 (1 Course)

- Complete: “Practice” exercises, even-numbered problems.
- Complete: “Additional Practice,” even-numbered problems. (back of book)
- Complete: Chapter quizzes, even-numbered problems.
- Complete: Unit 1 and Unit 2 “Reviews,” even-numbered problems.

D. *Working with Numbers, Algebra* (1 Course)

- Read and complete all exercises.

E. *Strength in Numbers, Algebra* (1 Course)

- Complete all even-numbered exercises.
- Complete Mid-Chapter Tests; even-numbered problems.
- Complete Chapter Tests 1-6; even-numbered problems.
- Chapter Summaries and Reviews: teacher discretion.
- Complete one Extension Activity

II. Extension Activity Options:

- A. Using the Internet, an Encyclopedia, or other reference materials research a famous mathematician. Create a rough draft of 5 paragraphs. Attach a bibliography. Turn in the paper to your teacher for corrections. Edit and revise your paper. Turn in a typed final draft to your teacher.
- B. Design a quilt using repeated patterns. Using the Internet, research different patterns that are used to make quilt squares. Look at the shapes, designs, corners, angles, and patterns. Using a ruler, butcher paper, pencil, and colored pencils or crayons create your quilt squares. Your design must be original. Each square must be the same size. Try to repeat some of your squares at least one time. Your quilt must be 2 ft. by 2 ft.

III. Evaluation

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