

Pre-Algebra (Mathematics)

Required – Year – 9

Prerequisites: Department recommendation

Course Description

Pre-Algebra offers students the opportunity to develop the skills and background necessary to study Algebra.

Course Goals

The Christian teacher will:

1. Show the students through the study of mathematics, the awesome order of God's creation.
2. Review the basics of number operations.
3. Expand the students' problem solving strategies.
4. Develop the needed skills for solving algebraic equations.
5. Guide the students in acquiring skills in logic and organization.

Course Objectives

The student should be able to:

1. Appreciate the order in which God placed the world.
2. Perform basic operations of numbers: adding, subtracting, multiplying, dividing
3. Apply problem-solving skills to every day problems.
4. Solve basic algebraic equations.
5. Organize information into workable material.

Course Outline

1. The Tools of Algebra
2. Integers/adding/subtracting/multiplying-dividing positives and negatives
3. Equations – one and two step
4. Factors and simplifying fractions
5. Rational Numbers – performing operations with fractions
6. Ratio, Proportion, and Percent
7. Equations and Inequalities
8. Polynomials/Adding-Subtracting/Multiplying-Dividing
9. Functions and Graphing/Slope
10. Two-Dimensional Figures (if time)
11. Three-Dimensional Figures (if time)
12. Real Numbers and Right Triangles (if time)
13. Statistics and Probability (if time)

Instructional Strategies

A number of different teaching approaches are used. These include lecture, demonstration, group activities, and daily practice.

Grading Methods

Your grade will be weighted and determined the following way:

Homework = 20%

Quizzes = 20%

Chapter Tests = 30%

Cooperation/Participation/Attendance = 10%

Semester Exam = 20%

GRADING SCALE

A+...100-99%

A.....98-96%

A-....95-93%

B+...92-90%

B.....89-87%

B-....86-84%

C+...83-81%

C.....79-77%

C-....76-74%

D+...73-71%

D.....70-68%

D-....66-64%

Student Materials

Glencoe Pre-Algebra Glencoe-McGraw-Hill. 2005

3 ring binder (medium size – nice and sturdy)

Pencils – all work is to be done in pencil – homework, quizzes, tests.

Bring all these things EVERY DAY!

Classroom Procedures

Almost every day you will have some kind of an assignment. It is very important that you do the following:

- **YOU** complete the assignment every day.
- Work through the problems before going for help.
- ASK for help when you get stuck.
- Be prepared for quizzes and tests.
- ASK when you are not sure about something.
- Pay close attention in class and take good notes and write down all examples. If you do this you will do better on the assignment!
- **SHOW ALL YOUR WORK ON YOUR PAPER TO BE TURNED IN!**
- Be on time!
- Only water in clear bottles is allowed.