



FREEDOM PROJECT ACADEMY

Course Syllabus

Junior High Math I/Fundamental Math

Course Description:

Fundamental Math is a course to help students firmly grasp the fundamentals of Arithmetic and become more confident mathematicians. Beginning with a review of the four operations of arithmetic (addition, subtraction, multiplication and division) the course moves into fraction and decimal concepts and computation. Throughout the course mathematical vocabulary is taught and used to strengthen understanding of basic math terms. Students are also exposed to Geometry, percentages, ratios, averaging, measurement, time and unit equivalencies. Consistently students are required to show mastery of complete answer procedures and showing all work. This course is an important piece in building fundamental knowledge of Arithmetic. It is essential for students to master the basics of mathematics. For students who are not confident in their mathematical abilities, the focus and slower pace of this class will strengthen their ability to understand math and set them up for future success.

Major Topics of Study:

Number Sense – relationships between numbers, place value

Addition and Subtraction Review and Terminology

Multiplication and Division Review and Terminology

Fractions – including adding, subtracting, multiplying, dividing and equivalent

Decimals – including adding, subtracting, multiplying and dividing

Geometry – lines, segments, angles, polygons, area, perimeter, circles

Measurement – metric and standard, liquids, equivalencies, time

Rounding

Averaging and Percentages

Word Problems

Addition, Subtraction, Multiplication, Division, Fraction and Percentage Facts drilled daily

Text/Required Materials:

Saxon 6/5 Text, 1st Edition (Optional)

Grading:

Daily Assignments – 40%

Weekly Tests – 45%

Fact Practice Drills and Quizzes - 10%

Participation - 5%

The lowest two assignment scores will be dropped each semester.

Attendance/Participation:

Classroom discussion and instruction will prove invaluable to students' understanding of the subject. Students are expected to participate in all classroom activities including work demonstrations, critical thinking problems, oral drills and daily breakout room practice. Please notify the instructor in advance (if possible) of any absences.

Expectations/Guidelines:

1. Assignment Sheets: You must read the Assignment Sheet at the start of every week. Assignment sheets are posted in Announcements a full week prior to the week they outline. In class instructions will help to clarify some assignments. Homework in this course is fairly routine and does not need much explanation after the initial learning curve.
2. Class Etiquette: Respectful behavior is expected in all class periods. Supporting one another as we learn is key to a positive learning environment. Encouraging one another is appreciated as we work together in partnership to grasp mathematical concepts.
3. Submitting Assignments: You **MUST** submit your assignments through Canvas.
4. Participation/Preparation: You **MUST** come to class ready. A notebook should be available during class for note taking.
5. Grades: Written work is more important than answers entered into Canvas daily "quizzes". Answers must be complete and all work must be shown on individual paper work. Including symbols and words with your numerical answer as required is expected.
6. Due Dates: All due dates are listed on the Assignment Sheets located in the Announcements. All assignments are due the day they appear in red print on the Assignment Sheet. Daily assignments are due the day after they are taught in live class. Tests are available, opened and due on the day they appear in red on the assignment sheet. Students who are asked to redo work have until the end of the week to resubmit completed revisions. Only students whose parents have cleared an extension per the Parent/Student Handbook will be granted more time for assignments.