

Middle School Math

This class will prepare the student for Pre-Algebra.

Various strategies such as virtual manipulatives, online games, classroom activities, video clips, music and the standard algorithms will be used in this course. Additionally, students will be required to complete weekly assignments to ensure competency of skills. All of these training methods will be implemented to teach computations which will prepare the student for Pre-Algebra and courses beyond.

Grades:	6-8
Prerequisites:	none
Day & time of Class:	Mondays 11:00- 12:30 ET
Full Year:	(30 weeks)
Instructor's Name:	Elisabeth Rainey
Instructor's Email:	erainey@myfunscience.com
Instructor's Phone:	919-264-6799
Textbook:	none (eBook and worksheets provided)
Additional Supplies/Resources Needed:	headset, microphone, notebook, paper, pencil, colored pencils

Students are encouraged to actively participate in the live class. It is so much fun to collaborate with each other, write on the board, and view video clips. You can choose to talk during the class OR text me privately with answers to questions. No pressure. You will be comfortable in the online classroom. We work together to learn and practice each math concept. We all make mistakes and that is how we learn! However, If you miss a live class please watch the recordings promptly 😊

Weekly Homework: Students will be given 4 homework assignments, such as a worksheet or internet activity, to complete over a 4 day period. *It is suggested that the student do 1 assignment per day so they can practice math every day.* Homework should not be stressful; it will be a review of the topics covered during our online class. Homework will be given as handouts and/or online assignments.

Homework Policy: The goal of homework is to reinforce and explore the concepts that were taught in class. This is a core class and you will need to keep up with assignments. Contact me if your assignments will be late. I will work with you. Otherwise, 5 points off per day.

Additional Policies: Students should conduct themselves appropriately with their speech and texts during our live class. Students who are unable to adhere to this type of conduct may be separated from the class or removed from the session.

Evaluation:

Live Class Participation	10% of final grade
Weekly assignments	20 % of final grade
Quizzes	30% of final grade
Tests	<u>40 % of final grade</u>
	100%

Grading Scale:

100-90:	A
89-80:	B
79-70:	C
69-60:	D
59 – 0:	No effort: F

Anticipated Weekly Course Schedule:Topical Agenda

Week 1 Exponents, Order of Operations, Negative number Basics
Week 2 Variables, Expressions, Whole number Equations (1 step)
Week 3 Decimals (compare, order, equivalence) w/ negatives
Week 4 Decimals (all operations)
Week 5 Decimal Equations all operations (1 step)
Week 6 Divisibility Rules, LCM, GCF
Week 7 Fractions (compare, order, equivalence) w/ negatives
Week 8 Fractions (all operations)
Week 9 Fractions and Decimals
Week 10 Mixed Numbers (all operations)
Week 11 Percents
Week 12 decimals, fractions, percents
Week 13 sales tax, discount, tip, simple interest
Week 14 Integers (add, subtract) (1 step equations)
Week 15 Integers (multiply, divide) (1 step equations)
Week 16 Integers (Order of operations)
Week 17 Integers (1&2 step equations- all operations)
Week 18 Square Roots, Cube Roots
Week 19 Whole Number Equations (2step)
Week 20 Whole Number Equations (2step)
Week 21 Decimal Equations all operations (2 step)
Week 22 Fraction Equations all operations (2 step)
Week 23 Inequality Basics & 1 step inequalities
Week 24 Ratios, Rates, Indirect Measurement
Week 25 Statistics & Data (graphs, tables, plots)
Week 26 Geometry (lines, angles, triangles, polygons, etc)
Week 27 Coordinate Plane, Transformations
Week 28 Perimeter Area, Volume
Week 29 Three Dimensional Shapes and Operations
Week 30 Probability