**2-4-6-8 You can learn to do math great!**

*This course is designed for the student going into middle school math OR the middle school student who is struggling, needs extra practice or an alternative way of doing calculations.* To build a strong foundation of math basics you need to learn and practice. Various strategies such as virtual manipulatives, online games, classroom activities, video clips, music and the standard algorithms will be used in this course. All of these training methods will be implemented to teach computations with decimals, fractions, mixed numbers and percents. These skills are the building blocks needed to excel in higher level math classes. This class can be taken in conjunction with a traditional math class.

**Grades: ~**5-7 (your grade will be kept anonymous)

**Prerequisites:** none

**Day & time of Class:** Tuesday 11:00 am ET

**Semester:** Fall 2018 (15 weeks)

**Instructor’s Name:** Elisabeth Rainey

**Instructor’s Email:** [erainey@myfunscience.com](mailto: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 (4 per week) 20 % of final grade

Weekly quiz 30% of final grade

Tests 40 % of final grade

100%

**Grading Scale:**

100-90: A

89-80: B

79-70: C

69-60: D

59 – 0: No effort: F

### Anticipated Weekly Course Schedule:

| Week | | Topic |  |
| --- | --- | --- | --- |
| Week 1 | Vocabulary, place value, estimate, round, mental math, odd, even, prime, composite | | |
| Week 2 | Operations with multiplication and division of multi digit numbers | | |
| Week 3 | Decimals= number line, compare, order, estimate, round | | |
| Week 4 | Decimals= add, subtract, multiply, divide | | |
| Week 5 | Word Problems & real life examples with decimals (all operations) | | |
| Week 6 | Fractions= equivalent, simplify, number line, compare, order, estimate, round | | |
| Week 7 | Fractions (like & unlike denominators)= add, subtract, multiply, divide | | |
| Week 8 | Word Problems & real life examples with fractions (all operations) | | |
| Week 9 | Mixed Numbers (unlike denominators)= estimate, round, compare, order | | |
| Week 10 | Mixed Numbers (unlike denominators)= add, subtract, multiply, divide | | |
| Week 11 | Word Problems & real life examples with Mixed Numbers (all operations) | | |
| Week 12 | Extra concepts with decimals, fractions, and mixed numbers | | |
| Week 13 | Percents (compare, order, discounts, tax, tip) | | |
| Week 14 | Percents in the real world | | |
| Week 15 | Fractions, Decimals, Percents= putting them all together | | |