

# Middle School Algebra

## Fall 2022 – Session 1

Instructor: Lyra Porcasi

# Syllabus

Class objectives: This course is designed to follow the CCSS for 8<sup>th</sup> grade, and is an equivalent course for 8<sup>th</sup> grade math. In session 1, students will learn how to solve a variety of linear algebraic equations, and how to apply them in problem solving.

Topics covered:

1. Solving one-step equations
2. Solving two-step equations with fractions
3. Solving equations with variables on both sides
4. Solving equations with parentheses
5. Simple literal equations
6. Order of operations, evaluating expressions, combining like terms, and algebraic properties

Special Project: Symbolic Math Languages Name and Birthdate Activity

Required materials for class every day: Spiral notebook (provided), graph paper (provided when necessary), pencil w/ eraser, scientific calculator (suggested TI-30), ruler (provided when necessary).

**Tests:** Every 2-3 weeks. This session: Aug. 31, Sept. 21 and Oct. 5.

**Outline of typical class:** Warm up and HW check, notes, activity, closure, new HW assigned, daily participation points given.

- Warm ups review what we learned during the last class session and must be done in spiral notebook,
- HW will be date-stamped and checked for completion,
- Notes must be taken in spiral notebook,
- Activities will vary,
- Closure consists of mini-quizzes, problems created and solved by students or reflection paragraphs (these will have their own spiral page and be turned in each class),
- Daily participation point rubric discussed in class and written in first day of student notes.

**Grading Rubric:**

- 50% assessments (includes quizzes, tests and projects weighted by the number of points assigned)
- 25% independent practice (includes homework and classwork)
- 20% participation (includes asking and answering questions, working with others and being productive in class)
- 5% attendance (being on time and prepared for class with all materials).

Student name: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

Date: \_\_\_\_\_