



Course Syllabus

Course Title: Math, Grade 8, Pre-Algebra

School Year: 2024-2025

Semester(s): 1 and 2

Grade Level(s): Grades 7 and 8

Course Day(s) and Times: Tuesdays and Thursdays, 11:00 am–12:00 pm PST

Teacher Information:

- **Name:** Ruth Maas
- **Email:** ruth.maas@brancheslearning.org
- **Office Hours:** By appointment only
- **Branches Learning Main Office Number:** (323) 955-0114

Class Materials - <https://brancheslearning.org/product/pre-algebra-ms/>

Course Description

Pre-Algebra aligns with the Common Core Standards and lays the foundation for subsequent high-school algebra courses. The focus is on developing students' problem-solving skills and preparing them for algebraic thinking.

Topics covered include:

- Expressions, Integers, and Number Properties
- Equations and Inequalities
- Rational Numbers
- Functions and Graphs
- Geometry
- Measurement
- Irrational Numbers
- Data Display and Analysis

Course Units

The following is a list of topics that should be covered in a Pre-Algebra course

Unit 1: Welcome! Review of Math Operations and Properties

Unit 2: Find Square Roots and Cube Roots

Unit 3: Practice the Properties of Exponents

Unit 4: Put Numbers into Scientific Notation

Unit 5: Solve Multi-Step Equations

Unit 6: Create Proportional Relationships

Unit 7: Solve and Graph Linear Functions

Unit 8: Solve a system of Linear Equations

Unit 9: All About Functions

Unit 10: Performing Shape Transformation, congruence, and similarity

Unit 12: How Lines, Angles, and Triangles Relate to Each Other

Unit 13: Find the Volume of 3D Shapes

Unit 14: How to Make a Scatter Plot, Bar Graph, and Pie Chart

Unit 15: How to Populate a Two-Way Table

Unit 16: Mixed Review

Course Expectations: Be prepared, attend from a quiet place, have your materials ready, have your camera on, be on time, participate, submit work in a timely fashion, treat others with respect, ask for help when needed.

Grading Scale

Middle School, Grades 6-8

- A = 90% -100%
- B = 80%-89%
- C = 70%-79%
- D = 60%-69%
- F = 0%-59%

Final grades are determined by the quality and completion of assignments, attendance, and participation.

Important Branches Learning Policy Information



Camera Policy

Branches Learning requires students to keep their cameras on during live classes unless otherwise instructed by the teacher. Exceptions can be made in rare circumstances if the course teacher, supervising teacher (HST), and the parent all approve a camera waiver.

Headset Policy

Students attending live classes from a shared space must have a headset with a microphone to ensure the class is not disrupted by background noise.

Attendance Policy

Absences must be reported to the course instructor via email or sent to info@brancheslearning.org. Class recordings are available upon requests.

Attendance and participation are part of the final grade. Students who miss more than 40% of live classes may fail the course. Exceptions may be made if a pre-approved plan is in place.

Late Work

Assignments turned in after the due date will result in a lower grade unless pre-approved by the instructor.