

Fundamental/Essential (STEP) Math Courses Syllabi Roosevelt High School 2023-2024

Instructor	Email	Room
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Course Information

The STEP Mathematics course sequence focuses on the specific needs of students based on their Individualized Education Plan. In this course students will apply the Standards for Mathematical Practice (below) to various real-world problems at their skill level. Specific units of study will be individualized within the classroom. This course is a combined course including the following:

Fundamental: This freshman course presents an individualized approach to provide the student with an opportunity to gain a firm working knowledge of basic mathematics. The emphasis in this course is on the diagnosis and remediation of each student. Several topics included are **operations of whole numbers, fractions, decimals, and measurements.**

Essential: This sophomore course is designed to enable students to apply the basic mathematical skills needed for everyday living. It reinforces and enhances students' knowledge in the following areas: **managing personal finances; using the base ten number system effectively; acquiring and maintaining computational skills; purchasing consumer goods, recognizing basic measurements; understanding and demonstrating the basic concepts of fractions, ratios, proportion and percents and understanding basic geometric shapes and geometric terms.**

Priority Standards:

Standards for Mathematical Practice:

MP1: Make sense of problems and persevere in solving them.

MP2: Reason abstractly and quantitatively.

MP3: Construct viable arguments and critique the reasoning of others.

MP4: Model with mathematics.

MP5: Use appropriate tools strategically.

MP6: Attend to precision.

MP7: Look for and make use of structure.

MP8: Look for and express regularity in repeated reasoning.

Social-Emotional: Positive Self Concept

SE.1.A.09: Develop skills needed to maintain a positive self-concept.

SE.1.A.10: Implement skills necessary to exhibit and maintain a positive self-concept.

Social-Emotional: Roles and Responsibilities

SE.1.B.09: Recognize increased roles and responsibilities of the individual student within the family, school, and local community.

SE.1.B.10: Prioritize roles and responsibilities and implement strategies in order to balance family, school, work and local communities.

Social-Emotional: Contributing to the Community

SE.1.C.09: Identify activities the individual student might participate in to become a contributing member of a school community.

SE.1.C.10: Identify and participate in activities that help the individual student become a contributing member of a global community.

Units: This course will be on a two-year rotation even numbered units will alternate each year.

Unit 0: Positive, Collaborative Classroom Community (recurring unit)

Unit 1: Properties of Real Numbers

Unit 2: The Tools of Algebra / Geometry

Unit 3: Factors, Fractions, and Exponents

Unit 4: Solving One-and Two-Step Functions / Real Numbers and Right Triangles

Unit 5: Rational Numbers

Unit 6: Inequalities / Perimeter, Area, & Volume

Unit 7: Ratios and Proportions

Unit 8: Linear Functions and Graphing / Probability and Data Analysis

Unit 9: Percents

Class Structure/Grading: Daily class lessons are organized using the 5E structure. Each day, students will have up to five possible areas in which to earn points.

Engage: Do Now- bell ringer activity (1 point)

Explore: Participation in group activity (5 points)

Explain: Notes/Vocabulary (5 points)

Elaborate: Small group practice/assignment (10 points) + Extended/Individual Practice (1 point)

Evaluate: Exit Ticket, Quick Check, Quiz, Assessment, etc. (5 points)

Class Expectations:

Attendance- Be here on time. Class starts when the bell rings. The door will be locked 5 minutes after the bell rings, and students will need a pass to enter after that time. Students will also not earn full daily participation points if late.

Language/Behaviors- We want everyone to be successful. To do that, we need to create a positive, collaborative classroom community. This means to be respectful, responsible, and safe in the classroom. *See class PCC posters.

Food/Drinks - Food/drinks are welcome in the room if they are not a distraction. Please clean up any messes made.

Computers- District laptops are the only device allowed in the classroom. Other devices should have been turned in during check-in at the beginning of the day. If I see a non-district electronic device in the classroom, I WILL call security and the grade-level dean to collect it. District devices are for schoolwork only. Unless we are using it for classwork, it should be put away. During independent work, students may listen to music with headphones if it is not a distraction. There will be a limited number of loaner laptops. They may not leave the classroom and can only be used for schoolwork.

Passes- Students may use a pass to the restroom, water fountain, or clinic when needed. However, if a student abuses the pass, they will get privileges revoked. (I will track this.)

Cleaning/Trash- Please keep the classroom clean. Return any borrowed materials, put trash in the trashcan, and clean up any spills/stains in the area.

***This list is not exhaustive. If I need to clarify more expectations in the classroom, I will!*

Let us have a wonderful year as a positive, collaborative classroom!