

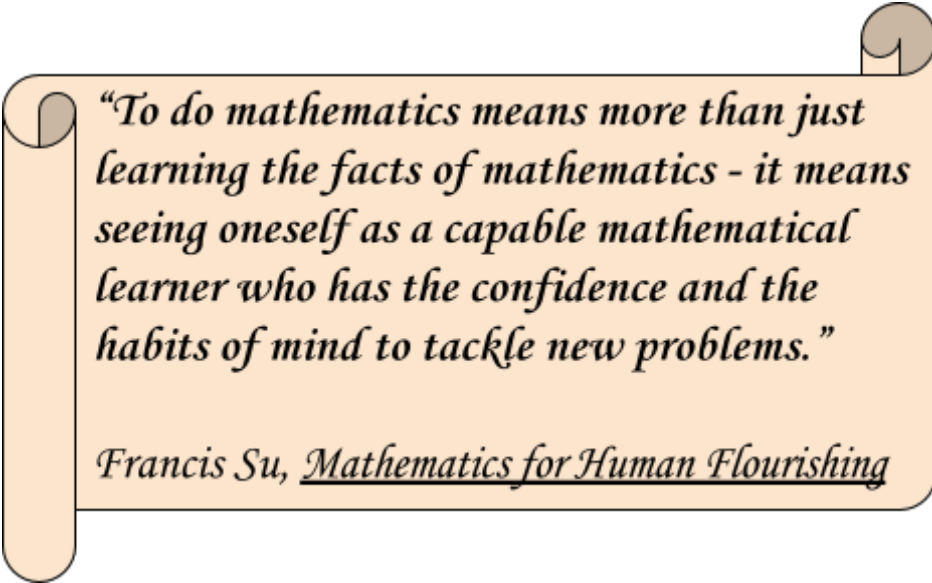
Integrated Math

With Mrs. Fox & Ms. Pfeffer

mfox@ossu.org

apfeffer@ossu.org

Office Hours: Support Block or after school by appointment



“To do mathematics means more than just learning the facts of mathematics - it means seeing oneself as a capable mathematical learner who has the confidence and the habits of mind to tackle new problems.”

Francis Su, Mathematics for Human Flourishing

About This Course

This class offers a Dare To Be Me approach to learning math. Students will grow both their problem-solving skills and number sense, while also building their social-emotional learning. This will happen through movement-based, hands-on indoor and outdoor activities that foster curiosity, connection, perseverance, a sense of belonging, and increased awareness of oneself and one's surroundings. The goal is for students to find purpose and joy in understanding how math is used in the world around them, while also gaining confidence in their abilities so that they can be successful in future math classes.

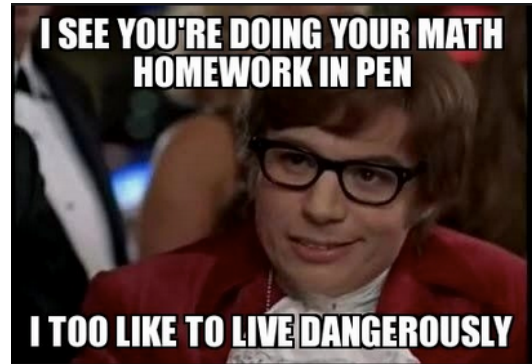
This course will prepare students to take either Pre-Algebra, Algebra, Geometry, or a different math course next year, depending on what credits they have already received and the path they choose to take. Students will be driving their own experience, and will set goals based on what they want to accomplish. Below is the list of standards we aim to cover in this class, and it will be modified by teacher's discretion.

- Operations with fractions
- Operations with negative numbers
- Proportional Relationships (including percentages and scale drawings)
- Writing and evaluating expressions
- Solving one-step equations
- Area, surface area & volume
- Writing equivalent expressions
- Linear relationships & slope
- Solving multi-step equations (including variables on both sides)
- Scientific Notation
- The Pythagorean Theorem
- Solving systems of equations
- Simplifying Radical expressions
- Laws of exponent

Materials

You will need the following materials each day:

- Be prepared to go **outdoors!**
- Something to **write with**
- Your **Chromebook**
- **Math binder** (this will be provided)

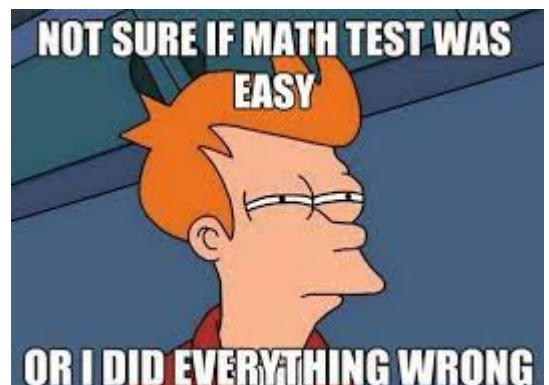


Classroom Policies

- **No cell phones** should be visible or audible at any time during class. If your phone is with you, no one should be able to tell it is with you.
 - There may be a few times during the year that cell phones will be allowed for ACADEMIC purposes. Your teachers will announce those times.
- **Chromebooks** should remain closed at all times, unless instructed by a teacher to take them out.
- **Drinks** are allowed at all times, as long as they are being used appropriately and are allowed by the student handbook (no soda or energy drinks).
 - Please ask a teacher for permission before opening any **food**.
- When you need to **leave the room** (bathroom, nurse, etc.), please ask the teacher for permission.

Handing In (and Re-Handing In) Work

- All assignments are expected to be turned in on time so that you can get the feedback you need, when you need it. Feedback is usually needed to move on to the next step or assignment.
- Late assignments will be accepted, however timely feedback cannot be guaranteed if assignments are turned in late.
- **When you are given feedback, you are encouraged to revise and resubmit your work!**



Assessment

Your grade will be based on all of the work you complete (a body of work). We will work together to determine when you show sufficient understanding of a math concept (or standard). There may be times that you complete a final product or assessment, and other times that you just compile all of your work. Either way, you will gather evidence to show your understanding and upload it onto Canvas or your PLP.

Part of your evidence will be weekly homework where you reflect on your learning and show your understanding of concepts through that reflection and through creating your own problems and solutions.

This rubric will be used to score and give you feedback on each math standard that you cover:

1: Not There <u>Yet</u>	2: Almost There	3: Got It	4: Master
I must show more evidence that I understand the math concept.	I show evidence that I understand some parts of the math concept and how to use it.	I show evidence that I understand the math concept and can use it effectively.	I show evidence that I deeply understand the concept and can use it efficiently and effectively. I can apply the concept in different situations.

You will also be assessed on your **Habits of Work** each week using the rubric below:

Score	Score Indicators
4	<input type="checkbox"/> I extend my learning and seek greater challenges when learning comes easily. <input type="checkbox"/> I commit to trying new things and risk making mistakes in order to grow.
3	<input type="checkbox"/> I use feedback and commit to revising my work. <input type="checkbox"/> I work collaboratively to achieve individual and group goals. <input type="checkbox"/> I recognize when I need help and seek it out during class, Support Block, and outside of class in order to be successful. <input type="checkbox"/> I pay attention to deadlines and due dates, and hand my work in on time.
2.5	<input type="checkbox"/> I persist when learning is challenging. <input type="checkbox"/> I contribute to a positive classroom environment. <input type="checkbox"/> I actively participate in class in a meaningful way.
2	<input type="checkbox"/> I put effort into completing required tasks in a timely manner. <input type="checkbox"/> I focus on the task at hand. <input type="checkbox"/> I come to class prepared and on time.
1	<input type="checkbox"/> I respect others' ideas, their right to learn, and their physical space. <input type="checkbox"/> I work safely and ethically with all school materials

How to Succeed in This Class

- ★ Be **respectful** to everyone that is a part of our class.
- ★ Ask for **help** when you need it!!!
- ★ ALWAYS **write down your ideas** - even if they are not complete or you think they are wrong.
- ★ Keep pushing yourself to **grow**.
- ★ Everyone has the right to **disagree**, as long as it is done **respectfully**.

