

CONTACT INFORMATION:

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MY SCHEDULE:

1ST: ALGEBRA II

2ND: ALGEBRA II

3RD: 8th GRADE MATH

4TH: FINANCIAL LITERACY

5TH: PREP PERIOD

6TH: ALGEBRA II

7TH: ALGEBRA II

MY TEACHING PHILOSOPHY & GOALS:

I will teach my students to appreciate and utilize the analytic side of their brains as well as the artistic and creative side. By the end of the year, I want my students to confidently apply their math skills and knowledge to any problem. Ultimately, my students will always think critically and analytically about any problem presented to them in order to reach logical conclusions, both in a mathematical setting and in life. PAPA is a college preparatory school, and my goal is to prepare my students for the rigor and complexity they will face not only next year in high school but subsequently also in college.

CLASS RULES & EXPECTATIONS:

There's really only one rule for my class: **BE RESPECTFUL**. I expect students to follow all school and district rules, but mostly it just comes down to treating each other, ourselves, and our school with respect. This means coming to class prepared, ready to focus and ready to work, out of respect for the teacher, peers, and self. While we are in a distance learning format, please use proper online etiquette to make sure our class-time online is productive and professional.

Online etiquette guidelines:

- Listen to your teacher and follow directions as you would in class. When in Zoom meetings, MUTE yourself as directed and "raise" your hand to participate.
- When you have something to contribute and it is not your turn, you can use the chat feature to message your teacher. Wait for the teacher to call on you, then unmute yourself.
- Try to look into the camera when you are speaking.
- Stay attentive. Pay attention to the teacher or other students that are talking.
- Check your background and the room you are in before any online Zoom sessions.
- Be sure personal information is not visible.
- Never post links to Zoom sessions on social media or share with others.
- Only use video conferencing (like Zoom) under the direction of your teachers.

Please see the PAPA Student Handbook or visit paparts.org for a full list and description of all school rules and policies. Please take special note of the PAPA Attendance Policy; consistent attendance is not optional.

ATTENDANCE:

While we are engaged in distance learning, attendance will be determined via student engagement in online activities and assignments. There will be a daily check-in assignment that students will be required to finish within the first ten minutes of class. If that assignment is completed late (but on the same day it is assigned), it will count as an Unexcused Tardy and will lose 25% of the credit. If it is completed within the assigned week (but not on the day it was assigned), it will be counted as an Unexcused Absence and will lose 50% of the credit. I strongly encourage students to make a habit of logging in to Google Classroom every day promptly at the beginning of class.

COURSE GRADES:

Each quarter, students' grades will be calculated using the following scale:

| | |
|-----------------------|------------|
| PARTICIPATION: | 20% |
| ASSESSMENTS: | 40% |
| HOMEWORK: | 20% |
| PROJECTS: | 20% |

SEMESTER GRADES:

Each semester, overall grades will be calculated using the following scale:

| | |
|--------------------------------|------------|
| 1ST QUARTER: | 40% |
| 2ND QUARTER: | 40% |
| FINAL EXAM: | 20% |

All students are required to take a cumulative final exam at the end of each semester. The fall exam will include material learned over the course of the first semester. The spring semester final exam is cumulative over the entire year.

CLASS STRUCTURE:

Throughout the year, the class will implement a mix of individual, paired, and group work. Students will have daily check-in via Google Forms, posted daily in Google Classroom. While we are engaged in distance learning, we will follow a general weekly schedule:

| MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY |
|------------------------|---------------------|---|---------------------|---|
| Daily Check-In | Daily Check-In | Daily Check-In | Daily Check-In | Daily Check-In |
| Previous Week's Review | Instructional Day | Zoom Small Group Conference Work Day | Instructional Day | Zoom Small Group Conference Work Day |
| Assessment/Review | Homework 1 Assigned | Homework 1 Due | Homework 2 Assigned | Homework 2 Due |

On Mondays, students will review the previous week's material, either in a review assignment or in an assessment. Tuesdays and Thursdays will be Instructional Days; these days may consist of video notes with an exit ticket, slideshow interactive notes, or possibly Zoom live-meeting lecture notes (which will be recorded and shared as a reference). On Instructional Days, students will be expected to work independently on whatever material is posted for them to review. Homework assignments will be posted with the instructional material each Instructional Day, and students will have time on Wednesdays and Thursdays to finish their homework assignments and ask for help during the Zoom small-group conferences. We will also work on practice problems and applications during the conference work days, so students should expect to be in a Zoom meeting for about 45 minutes on Wednesdays and Fridays. I will be available for impromptu help sessions (Zoom meetings) on Mondays while students are working on reviews and assessments. This general schedule outline may change as needs arise as we progress through the year, but students should

It is my goal in this course to prepare students for high school level content and work. The pace and level of difficulty of 8th grade math is comparable to a freshman level high school math course, so in line with PAPA's vision and mission, this course will emphasize high school preparedness to support academic excellence.

HOMEWORK:

Homework will be assigned at least 2 times per week. Homework is due by the end of the day the day after it is assigned, unless otherwise stated. Homework is meant to help students practice skills, so I will only assign it when it's going to be helpful and meaningful. I believe that homework should help students learn, not just be a chore. While we are in a distance learning format, homework will generally consist of Khan Academy and IXL assignments, but the format of homework may vary depending on the content. All work will be posted via Google Classroom, so make sure to check in every day and read all instructions thoroughly on each assignment.

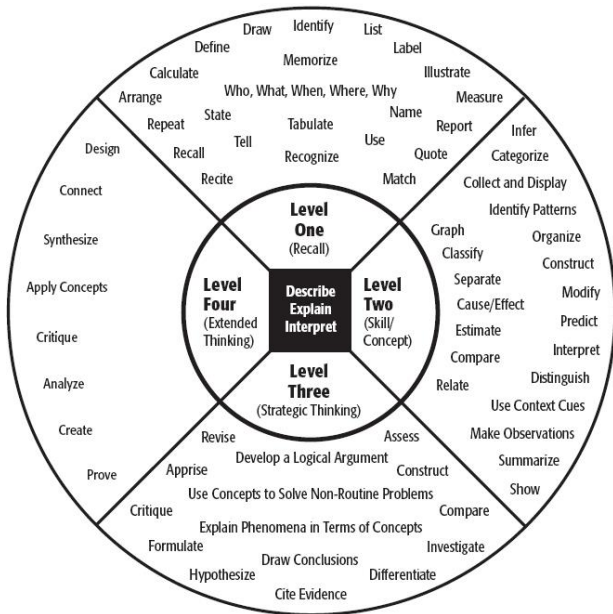
LATE HOMEWORK:

I do accept late homework. All assignments submitted after the due date will automatically lose 20% of the credit, so long as it is in **BEFORE** the test over that material. I will still accept homework after the test has been administered, but it will only receive 50% of the credit. Please note that I cannot accept late work after each quarter ends.

COURSE DESCRIPTION:

The purpose of 8th grade math is primarily to prepare middle school students for the topics and rigor they will face in high school mathematics courses. Therefore, throughout the year we will cover a variety of pre-algebra, pre-geometry, and pre-statistics topics. In all topics, students will be required to remember and understand key concepts and foundational material in order to apply, analyze, and evaluate complex mathematical problems in order to analyze real-world problems and create logical solutions. The ultimate goal is for students to be able to flow seamlessly between all strata of both the Webb's Depth of Knowledge and the Bloom's Taxonomy guidelines (pictured below for your reference) to achieve mastery over introductory high school math topics.

WEBB'S DEPTH OF KNOWLEDGE



BLOOM'S TAXONOMY



MATHEMATICAL STANDARDS:

For a thorough discussion of the standards to be covered in 8th grade math this year, please refer to the New Mexico Instructional Scope for 8th Grade Mathematics, which can be accessed at:

<https://webnew.ped.state.nm.us/wp-content/uploads/2020/07/8th-Grade-New-Mexico-Mathematics-Instructional-Scope.pdf>.

Below is an overview of those standards with a short description of each topic we will cover in our 8th grade math class this year.

THE NUMBER SYSTEM

- Know that there are numbers that are not rational, and approximate them by rational numbers.

EXPRESSIONS AND EQUATIONS

- Work with radicals and integer exponents.
- Understand the connections between proportional relationships, lines, and linear equations.
- Analyze and solve linear equations and pairs of simultaneous linear equations.

STATISTICS AND PROBABILITY

- Investigate patterns of association in bivariate data.

FUNCTIONS

- Define, evaluate, and compare functions.
- Use functions to model relationships between quantities.

GEOMETRY

- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand and apply the Pythagorean Theorem.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.

While this course will not follow the same progression as listed on the website provided above, it is a useful resource for reviewing the required standards.