



Reynolds High School

Math Games (2024 – 2025)

Building Relationships for Academic Success

Instructor: Andrea Hernandez
Room 705

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Necessary Materials:

- Chromebook – charged, decluttered, and updated
- Paper, pencil, eraser, colored pencils, highlighters
- A scientific calculator

Disclaimers:

By taking this course, you are agreeing to interact with all other students in the class. Students with anxiety issues can be successful with some accommodations, but a willingness to play games with others is crucial to a successful outcome. Not doing so will negatively impact your grade.

Using cell phones, headphones, and ear buds during class will interfere with your ability to interact with others in class. These behaviors will negatively impact your grade. Keep them off and away.

This class relies heavily on good attendance. If you miss class, you may miss activities that cannot be recreated. This will negatively impact your grade.

This class will be using cards, dice, and other games and game pieces. If you mistreat these necessary supplies, you may be asked to replace them and/or lose the privilege of using them. This can negatively impact your grade.

Course Description:

This course will use games as the vehicle to explore math concepts. We will study probability (month 1), expected value (month 2), Pascal's Triangle (month 3), and combinatorics (month 4). We will see how to use these concepts to make decisions, problem-solve, and evaluate or create a game. It is a semester course and awards 0.5 math credit. All resources for this class will be provided in class and in Schoology.

Course Requirements:

This course will require you to play games! You will also be asked to complete daily warm-ups, exit tickets, and assignments. We will have a test at the end of each unit and a final project at the end of the semester.

Opportunities to work in collaboration with other students is encouraged (often mandatory), but all work turned in must be your own. Under no circumstances is it acceptable to turn in work copied from another student or anything that is AI generated.

Grading and Grade Weights:

The gradebook will show three categories: Summative (40%), Formative (10%), and Participation (50%).

- The Summative category is for unit tests, end-of-unit performance tasks, and the final project.
- The Formative category is for assignments, quizzes, checkpoints, and game evaluations.
- The Participation category is for warm-ups, exit-tickets, and game participation.

ALL work must be made up when you are absent. Please check Schoology and/or see me to figure out what needs to be done. Formative items from a given unit cannot be completed for credit after the summative test for that unit is given.

Tests can be retaken (up to 90%) at any time before the end of the semester. You will be required to perform a task in preparation for a retake to strengthen the skills needed to improve your score.

Formative items cannot be retaken except under extraordinary circumstances.

Letter Grade Description & Percentage Breakdown:

| Grade Percentage | Letter/Scale Grade | Description |
|-------------------------|---------------------------|--|
| 100% - 90% | A/5 | The student understands the content and course objectives at a mastery level. |
| 89% - 80% | B/4 | The student understands the content and course objectives at an above average level. |
| 79% - 68% | C/3 | The student understands the course content and course objectives at an average level. |
| 67% - 56% | D/2 | The student understands the course content at a below average level and a minimum of course objectives are met. |
| 55% - 1% | F/1 | The student has not met a sufficient number of course objectives to pass a minimum level and receives no credit. |
| 0% | N/0 | No work has been completed to allow for an evaluation. No credit earned. |

Class Expectations (POWER):

| <u>Letter</u> | <u>Stands for</u> | <u>What does this look like in our classroom?</u> |
|----------------------|--------------------------|---|
| P | Prepared & Punctual | Be in your seat when the bell rings. Have your supplies out and ready to use. Have your assignment out and ready to correct. |
| O | Organized | Have your assignments readily available to access in class. Have a binder or 2-pocket folder for class papers. Have your computer files named and saved in folders. |
| W | Writers | Write assignments and test dates in your planner. Learn and use mathematical notation in your assignments. Write evaluations and analyses of games that we play. |
| E | Engaged | Do the activities assigned from bell to bell. Work well alone and with your group. Stay in class unless it is an emergency. |
| R | Respectful | Sit in your assigned seat. Treat classroom and borrowed supplies carefully. Phones, headphones/earbuds, and food are put away. |

I look forward to working with you this year! I will post my office hours in class weekly to let you know when I am available to offer you extra support. In past years, we have also had after school homework help available. Look for more information about that starting in October.