

Math 9

COURSE SYLLABUS

2022 - 2023

Ms. Kyla Rae

CLASSROOM: 129

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A. DESCRIPTION:

This year, you will learn about powers and apply the order of operations, including exponents to solve problems. You will solve problems involving operations on positive and negative fractions and decimals, and will gain an understanding of square roots of positive numbers. Additionally, you will model and solve problems using linear equations, which is an equation that results in a straight line when it is graphed and linear inequalities with one variable. Finally, you will be introduced to polynomials and solve problems involving circle geometry and scale diagrams.

B. COURSE TOPICS:

- Unit 1: Symmetry and Surface Area
- Unit 2: Rational Numbers
- Unit 3: Powers and Exponents
- Unit 4: Scale Factors and Similarity
- Unit 5: Introduction to Polynomials
- Unit 6: Linear Relations
- Unit 7: Multiplying and Dividing Polynomials
- Unit 8: Solving Linear Equations
- Unit 9: Linear Inequalities
- Unit 10: Circle Geometry
- Unit 11: Data Analysis

C. TEXTBOOK AND REQUIRED SUPPLIES:

Please ensure that you bring the following materials to class every day.

- Interactive Notebook
- Pencil
- Calculator

D. GRADING PLAN

HOMEWORK: You are expected to complete each homework assignment given to you, the results of which will be used as a form of assessment.

ASSESSMENT TASKS AND EXAMS: You will complete an exam at the end of every unit. Additionally, you will be given an assessment project which will take various forms including art projects, escape rooms and real world considerations. You will be graded based on your understanding of the concepts included within the assessment task using a rubric shown to you at the time of the assessment task.

MID-TERM: You will be writing a mid-term exam early in 2023. This will be a cumulative exam covering everything we have learned up until that point. More information on this exam will be given closer to the time.

FINAL EXAM: There will be a final PAT exam that you will write at the end of the year. More information about the exam will be shared closer to the date.

E. BREAKDOWN OF GRADE

PROJECTS AND ASSIGNMENTS: 30%

EXAMS: 40%

MIDTERM: 10%

FINAL EXAM: 20%

TOTAL: 100%

F. CLASSROOM RULES OF CONDUCT

ARRIVAL: You are expected to arrive in class on time. Please enter the room quietly and find your seat. There will be some information on the board that will direct you until class begins.

DISMISSAL: The bell does not dismiss you. Please do not begin to pack any belongings until after you are dismissed by the teacher. Upon being dismissed, please quietly pack your belongings and quietly leave the classroom.

RESOURCES: Student resources are available to you should you need to use them. If you require any resources, please ask for the materials you need and they will be provided to you.

GROUP WORK: There will be opportunities for working within groups. During these times, please be sure that you remain on topic and are respectful to your fellow classmates. If it is found that work is not taking place during these times, opportunities for group work will not be given.

MISSED WORK: Please ask me for any of the assignments that you missed as a result of an absent. If you've previously lost your assignment, they can be accessed through my class website (QR Code is posted by the door) or Google Classroom. You are responsible for printing these documents and handing them in.

CELL PHONES: It is a school wide policy that all cell phones should be left in your locker and not to be used in class.

If you are seen using your cell phone, one of the adults in the room will ask you for your phone and it will be placed in the office for the remainder of the day.

Upon being asked, if you give up your phone right away it will be taken to the office. If you refuse to hand over your phone, you will be sent to the office and will lose phone privileges for the day.

G. EMERGENCY PROCEDURES

FIRE DRILL: Students will exit the room in single file and head to the Aquatic Center parking lot. If you are in the hallways when the alarm goes off, please exit the building with the hallway supervisor and rejoin your class outside. Please line up right-left in alphabetical order behind Ms. Rae. You may only return to the building once you have been given clearance to do so. In the event that an alarm goes off during a break, exit the building near the nearest exit and proceed to the Aquatic Center as normal. Line up behind the teacher of the class you **JUST** had.

LOCK DOWN: All students need to enter the nearest classroom. All cellphones must be turned off and handed into the teacher. There must be no talking, whispering, etc. for the duration of the lockdown. We will all gather in the front left corner of the room near the storage cupboard. No one will be permitted to leave or enter the room.

CLEAR THE HALLS: If you are in the halls, enter the nearest classroom. You will remain in the classroom until given notice to do otherwise.

TENTATIVE SCHEDULE

Date	Lesson
September	Chapter 1: Symmetry and Surface Area
October	Chapter 2: Rational Numbers
November	Chapter 3: Powers and Exponent
December	Chapter 4: Scale Factor and Similarity
TBD	Mid Term Exam
January - Mid-February	Chapter 5/7: Polynomials
Mid-February - March	Chapter 6/8 Linear Relationships and Equations
April	Chapter 9: Linear Inequalities
May	Chapter 10: Circle Geometry
June	Chapter 11: Data Analysis