



**GRIMSHAW PUBLIC SCHOOL**  
"Inspiring Our Students Today For Tomorrow's Future"  
**Math 9 Course Outline**  
**2024-2025**

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### **Welcome to Mathematics 9!**

The aim of mathematics education is to prepare students to:

- Use mathematics confidently to solve problems
- Communicate and reason mathematically
- Appreciate and value mathematics
- Make connections between mathematics and its applications
- Commit themselves to lifelong learning
- Become mathematically literate adults, using mathematics to contribute to society

#### **Course General Objectives**

As per the Alberta Grade Nine Mathematics Program of Studies, the following learning outcomes will be covered in this course:

##### *Number Sense (40%)*

- Demonstrate an understanding of powers, operations on powers, and rational numbers
- Determine the square root of a number

##### *Patterns and Relations (45%)*

- Use patterns to describe the world and to solve problems
- Represent algebraic expressions in multiple ways

##### *Shape and Space (10%)*

- Use direct and indirect measurement to solve problems
- Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them
- Describe and analyze position and motion of objects and shapes

##### *Statistics and Probability (5%)*

- Collect, display and analyze data to solve problems
- Use experimental or theoretical probabilities to represent and solve problems involving uncertainty

# Mathematics 9

## COURSE EVALUATION

A variety of instructional and assessment strategies will be used throughout this course. The course includes a final examination worth 25% of your final grade. The 75% school mark is evaluated over the term as follows:

School Evaluation		Individual Unit Evaluation	
Number Sense	30 %	Unit Exams	50 %
Patterns & Relations	33.75 %	Quizzes	40 %
Shape & Space	7.5 %	Assignments/Projects	10 %
Statistics & Probability	3.75 %	<i>Unit Total</i>	100 %
Final Exam	25 %		
<i>Course Total</i>	100 %		

\*Weightings are subject to change but students will be notified if anything deviates from the above breakdown

Unit	Outcome	Approx. Dates:
Squares and Square Roots	Number Sense	September
Powers and Exponent Laws	Number Sense	September
Rational Numbers	Number Sense	October
Order of Operation and Problem Solving	Number Sense	November
Polynomials	Patterns and Relations	November/December
Linear Relations	Patterns and Relations	January
Solving Equations	Patterns and Relations	February
Inequalities	Patterns and Relations	February
Surface Area	Shape and Space	March
Similarity and Transformations	Shape and Space	April
Circle Geometry	Shape and Space	April/May
Statistics and Probability	Statistics and Probability	May
Extra Days, Final Exam Review and Final Exam		June

## **MISSED/LATE WORK POLICY**

Circumstances may arise where students miss assignment due-dates, quizzes or unit exams. Missed assessments must be made up and handed in within two (2) school days following a *verified absence*, except with prior permission from your teacher. Regular student and parent monitoring of the student's progress is recommended through PowerSchool, which is accessible via the GPS website.

**Assignments** will be given regularly and are a crucial component to practicing and developing skills in math. Assessments will either be formative or summative.

*Formative assessments* are completed on a regular basis as a method to evaluate student progress prior to being tested on a concept. Formative assessments will be given during class time and as part of the regular homework routine. The expectation is that students are completing these as a way to improve knowledge and understanding. They will be given verbal feedback or recorded in PowerSchool with a weighting of zero. *\*Just because an assignment isn't for marks does not mean it does not impact your mark\**

*Summative assessments* are completed regularly and will be evaluated for a mark in PowerSchool. Most summative assessments will be due two (2) days after they are given, unless noted by the teacher. Summative assessments will no longer be accepted once the unit exam is completed.

At the teacher's discretion, a student handing in a past-due assignment will receive a completion credit in place of a numerical grade (i.e., students will receive an "excused" once they complete a past-due assignment, which neither helps nor hinders their overall grade).

**Quizzes and Unit Exam** are completed throughout the unit and students will be notified prior to being given. No retests will be permitted. Corrected quizzes can be handed in with the unit exam to be replaced by the unit exam mark, if it exceeds the quiz mark.

**Final Exam:** The final exam is a cumulative test at the end of the year that covers the content from the entire course. The Provincial Achievement Test (PAT) is written in two parts; Part A is a non-calculator portion and Part B allows for the use of a *scientific* calculator.

## REQUIRED RESOURCES

Binder, Loose leaf, *Scientific Calculator\**, Writing utensils, Ruler, and Erasers

The **textbook** for **Math 9 is Math Makes Sense 9 by Pearson**. As of right now no textbook will be used but if you would like one for additional practice you may ask Mrs. Taje. A digital copy will also be posted to google classroom.

*\*I recommend the TI-30X IIS, if you are unsure that your calculator is acceptable please see Mrs. Taje. Cellphones cannot be used as calculators.*

## CELLPHONES AND MOBILE TECHNOLOGY

Mobile devices are no longer permitted in the classroom and must be left in the student's locker. Any student who does not follow this policy will be referred to the office and must turn in their phone for the remainder of the day.

## CLASSROOM RESPONSIBILITIES

Students are expected to be respectful and responsible in all of their classroom interactions. Being respectful and responsible can include but is not limited to:

- Showing up on time, prepared to learn every day
- Not be disruptive to others learning
- Participate in classroom activities and discussions in a way that allows everyone to feel supported and like part of the classroom community
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I have high, positive expectations of every student, and every student should have the same expectations of themselves. All work should be completed with pride and to the best of your ability. I am always available to help. I believe you can succeed.

**Parents/Guardians:**

Please take the time to review your child’s course outline. If you have any questions or concerns, please feel free to contact me at [tajee@prsd.ab.ca](mailto:tajee@prsd.ab.ca)

By signing this course outline, students and their parents/guardians are declaring they have read and understood the expectations for this course.

Student Name: \_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_