



Course: Mathematics 9

Course Description:

Math 9 continues to develop students' skills in communicating and reasoning mathematically, becoming mathematically literate, problem solving and real-life applications. The course builds on and expands the concepts covered in Math 8. Topics of study include data analysis, rational numbers, polynomial, linear relations and solving linear equations, scale, similarity and financial literacy.

Overarching inquiry questions:

To what extent does mathematics describe the real world? How do mathematical relationships help us to identify regularities and make predictions?

Course Expectations:

It is expected that students will:

- Abide by the student Code of Conduct
- Adhere to the Academic Honesty policy
- Respect yourself and others
- Attend every class and be punctual
- Inquire, think, and participate to the best of your individual ability
- Access technology in class for learning purposes only & only when instructed to do so
- Challenge yourself and have fun learning

Seycove Learning policies can be accessed at:

[https://www.sd44.ca/school/seycove/About/agenda/Documents/Seycove%20Agenda%20Book%202018-2019%20\(final\).pdf](https://www.sd44.ca/school/seycove/About/agenda/Documents/Seycove%20Agenda%20Book%202018-2019%20(final).pdf)

Evidence of Learning

What the students will KNOW:

- Operations with rational numbers
- Exponents and exponent laws
- Polynomials: degree less than or equal to 2
- Two-variable linear relations
- Multi-step one-variable linear equations
- Spatial proportional reasoning
- Financial literacy: simple budgets and transactions
- Statistics in society



What the students will DO:

- Estimate reasonably and demonstrate and apply mental math strategies
- Apply multiple strategies to solve problems in both abstract and contextualized situations
- Explain and justify mathematical ideas and decisions
- Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving

What the students will UNDERSTAND:

- We use patterns to represent identified regularities and to make generalizations
- Algebraic reasoning enables us to describe and analyze mathematical relationships
- Proportional reasoning enables us to make sense of multiplicative relationships

Evaluation: based on performance standards and criteria

Learning Activity	Percentage of final Mark
<ul style="list-style-type: none">• Chapter tests and quizzes• Inquiry-based assignments• Collaborative hands-on activities• Oral and written self- reflections• Projects on statistics and financial literacy	85%
Summative Assessment Student will complete an open-book final exam which will assess their learning of entire course.	15%