

INSTRUCTOR

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RECOMMENDED PRE-REQUISITES

N/A

CREDITS

N/A

OVERVIEW

Mathematics is integral to every aspect of daily life. Mathematical skills are essential for solving problems in most areas of life and are part of human history. This Math 9 course covers the following topics:

- **Unit 1: Numeracy**
- **Unit 2: Exponents**
- **Unit 3: Equations**
- **Unit 4: Polynomials**
- **Unit 5: Graphing & Tables**
- **Unit 6: Geometry**
- **Unit 7: Data Analysis**
- **Unit 8: Finances**

In each unit, students will follow video-based lessons at their own pace. These lessons will include practice activities, and extra resources (such as games or real-life problems). Students will regularly meet in-person or online with the teacher for additional practice and support.

This course explores the Big Ideas mentioned below as well as the curricular competencies and content found in the [Learning Standards](#) set out by the BC Ministry of Education.

Big Ideas

The principles and processes underlying operations with [numbers](#) apply equally to algebraic situations and can be described and analyzed.

Computational [fluency](#) and flexibility with numbers extend to operations with rational numbers.

[Continuous linear relationships](#) can be identified and represented in many connected ways to identify regularities and make generalizations.

Similar shapes have [proportional relationships](#) that can be described, measured, and compared.

Analyzing the validity, reliability, and representation of [data](#) enables us to compare and interpret.

ASSESSMENT

Students will have the opportunity to demonstrate their learning through a variety of means such as: in-class activities and discussions, learning guides, projects, tests, quizzes, and reflections. Student growth and progress will be shared and communicated using the Provincial Proficiency Scale.

The Provincial Proficiency Scale	EMERGING	DEVELOPING	PROFICIENT	EXTENDING
	The student demonstrates an initial understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a partial understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a complete understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a sophisticated understanding of the concepts and competencies relevant to the expected learning.

RESOURCES

There is no textbook for this course. You will need access to a computer with an internet connection and a basic scientific calculator.

KEYS TO SUCCESS

- Actively work through each lesson, trying examples and reflecting on material.
- Use the Learning Guides as your tool for documenting your understanding and showing your thinking
- Be organized. Having an organized place at home to study and having your work organized in a binder or in a digital folder will help you stay focused.
- Make sure you understand any questions you get wrong. If you can't figure it out - ASK!
- Be sure to use the message system or email for regular communication with your instructor.
- Use the suggested schedule and course Pacing and Progress tool to stay on track for completion.

REGISTRATION

Please note – vLearn is a District Online School and can only serve students in the SD22 Catchment Area. Grade 8/9 students need approval from their home school administrator to take courses with vLearn. Please use your SD22 email address to register (000000@sd22.bc.ca)



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