

**Math 9**  
**With Mrs. Kristina Stefanek @ Smithers Secondary School**

Email: [kristina.stefanek@sd54.bc.ca](mailto:kristina.stefanek@sd54.bc.ca)  
Website: [mrsstefanek.weebly.com](http://mrsstefanek.weebly.com)

Telephone: (250) 847-2231  
Classroom: 401

**Purpose:**

This course is a continuation of Math 8. It is designed to provide students with the mathematical understandings and critical-thinking skills necessary for continuing in Math. After this year, students will be recommended for either Foundations of Math & Pre-Calculus 10 or Apprenticeship & Workplace Math 10.

**Keys to Success:**

I am looking forward to working with each student to meet the challenges of this course! I will do everything I can but the **biggest part is up to each student**. Here are the keys to success:

1. Set a goal and expect to achieve it.
2. Be ready and willing to learn.
3. Use class time to focus on math.
4. Ask questions if you do not yet understand.
5. Complete all recommended practice.

**Expectations:**

- **RESPECT** your teacher, your classmates, your classroom, and yourself!!
- Cell phones or mobile devices will be used for educational purposes only.
- Food and drink will be allowed as long as you remove all garbage and recyclables.

**Special Note on Attendance:**

While it is understandable that students will get sick through the year, have family emergencies, and have appointments to attend, the original classroom experience can never be 100% duplicated. I will always do my best to help students catch up on the material that has been missed, but it is the student's responsibility to follow up with me and their classmates for the missing work. Practice work and the lessons can always be accessed through my webpage.

**Extra Help:**

I am usually available before school (8:00 – 8:30) and at lunch. If neither of these times work for you, please let me know and we can arrange another time. I will encourage all students to come in for extra help through the year; however, **your own initiative is what will make the biggest difference in how well you do in this course!**

**Materials:**

- binder with lined paper and dividers
- pencils, eraser, ruler, coloured pencils or highlighters, and a scientific calculator

**Curriculum:** please visit <https://curriculum.gov.bc.ca/curriculum/mathematics/9/core>

**Assessment:** please visit

<https://www2.gov.bc.ca/assets/gov/education/administration/kindergarten-to-grade-12/unpacking-the-proficiency-scale-support-for-educators.pdf>

**Learning Outcomes:**

Topic	Learning Outcomes ~ Student can:
<b>Rational Numbers</b>	<ul style="list-style-type: none"><li>• <b>R1:</b> demonstrate an understanding of rational numbers by comparing and ordering rational numbers.</li><li>• <b>R2:</b> add, subtract, multiply, divide, and apply the order of operations to fractions.</li><li>• <b>R3:</b> add, subtract, multiply, divide, and apply the order of operations to decimals.</li></ul>
<b>Polynomials</b>	<ul style="list-style-type: none"><li>• <b>P1:</b> demonstrate an understanding of polynomials (variables, degree, number of terms, coefficients, and constant term, limited to polynomials of degree less than or equal to 2).</li><li>• <b>P2:</b> add and subtract polynomial expressions.</li><li>• <b>P3:</b> multiply and divide polynomial expressions by monomials.</li></ul>
<b>Algebra</b>	<ul style="list-style-type: none"><li>• <b>A1:</b> solve simple, multi-step, one-variable linear equations (variable on one side, no distribution).</li><li>• <b>A2:</b> solve multi-step, one-variable linear equations that involve distribution and combining of like terms.</li><li>• <b>A3:</b> model and solve problems using linear equations.</li></ul>
<b>Linear Relations</b>	<ul style="list-style-type: none"><li>• <b>L1:</b> generalize a pattern arising from two-variable linear relations.</li><li>• <b>L2:</b> graph two-variable linear relations.</li><li>• <b>L3:</b> analyze the graph of two-variable linear relations, and interpolate or extrapolate to solve problems.</li></ul>
<b>Exponents</b>	<ul style="list-style-type: none"><li>• <b>E1:</b> demonstrate an understanding of powers with integer and variable bases and whole number exponents.</li><li>• <b>E2:</b> use exponent laws to simplify and evaluate expressions with integer bases and whole number exponents.</li><li>• <b>E3:</b> use exponent laws to simplify expressions with variable bases and whole number exponents.</li></ul>
<b>Financial Literacy</b>	<ul style="list-style-type: none"><li>• <b>F1:</b> demonstrate an understanding of basic banking transactions, and calculate simple interest.</li><li>• <b>F2:</b> create a simple budget for an event.</li></ul>
<b>Proportional Reasoning</b>	<ul style="list-style-type: none"><li>• <b>T1:</b> draw a diagram to scale that represents an enlargement or reduction of a given 2D shape.</li><li>• <b>T2:</b> solve a scale diagram problem by applying the properties of similar polygons.</li></ul>
<b>Statistics</b>	<ul style="list-style-type: none"><li>• <b>S1:</b> demonstrate an understanding of population versus sample, bias, ethics, use of language, cost, time and timing, privacy, cultural sensitivity, sampling techniques, and misleading stats.</li><li>• <b>S2:</b> develop and implement a project plan for the collection, display, and analysis of data.</li></ul>

*I look forward to working with all students and their families. Please feel free to contact me at any time should you have any concerns.*

*Sincerely,  
Mrs. Kristina Stefanek*