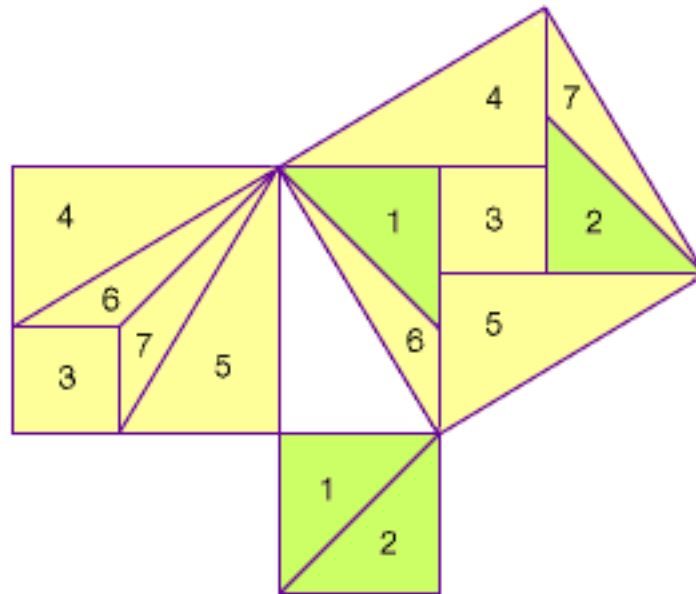


## Course Outline

# Math 8



### Required Materials:

- ❖ 1 ½ or 2 inch, 3 Ring Binder
- ❖ 3 hole punched lined paper
- ❖ 3 hole punched graphing paper
- ❖ Binder dividers for each unit (8 total)
- ❖ Pencil, eraser, blue or black pen, red pen, ruler, highlighters.
- ❖ Scientific Calculator
- ❖ Whiteboard dry erase marker
- ❖ 120 pg 1 Subject Notebook

### Course Topics:

- Unit 0: Review of Prior Learning
- Unit 1: Integers
- Unit 2: Fraction Operations
- Unit 3: Rates, Ratios, and Percentages
- Unit 4: Pythagorean Theorem
- Unit 5: Linear Relations and Equations
- Unit 6: Surface Area and Volume
- Unit 7: Statistics and Probability

# Policies & Expectations:

**PUNCTUALITY:** Please arrive before the bell so that you have time to prepare your materials for class.

1. First Offense = Warning
2. Second Offense = Detention
3. Third Offense = Phone call home

**ATTENDANCE:** Missing a day can quickly put you behind in your classwork. It is important that you attend all classes unless there is a reasonable personal or medical excuse. Please inform me well in advance if you know you will not be able to attend a lesson. It is your responsibility to catch up on missed work if you are absent.

**ILLNESS:** DO NOT come to school if you experience any symptoms of illness. If you are experiencing any signs of illness, please inform me *right* away so that I can alert the proper authorities. This is for the health and safety of our class and everyone in our community.

**CELLULAR DEVICES:** Cell phones are to be turned off and stored in your backpack at all times during class, unless otherwise directed.

- First Week Offence = Warning
- After First Week = Confiscation
- Frequent Offences = Phone call home

**FOOD/DRINK:** Food and drink are NOT permitted in the classroom. Water in a re-sealable container is acceptable.

**ASSIGNMENTS:** Assignments are to be submitted by the specified due date. Extensions on assignments will be provided on a case-by-case basis. You must talk to me at least 24 hours before the due date in order to be given an extension.

**ASSESSMENTS:** Please do not miss unit test days. This is an incredible inconvenience for me. Please inform me well in advance if you know that you will be unable to attend a test day.


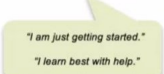
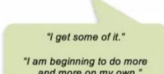
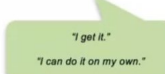
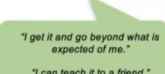
**CHEATING:** No warnings. First offense will result in a phone call home and referral to the office.

## Assessment Practices:

You will be graded according to course specific standards and the proficiency scale indicated below.

To successfully pass the course your achievement must *surpass* an Emerging level.

Your final grade will be determined by the accumulation of learning that you demonstrate throughout the course. Class activities, assignments, quizzes, and tests will inform your proficiency level.

PROFICIENCY LEVEL 			
Emerging	Developing	Proficient	Extending
<ul style="list-style-type: none"> <li>•The student is beginning to demonstrate basic knowledge in relation to the learning standards</li> <li>•Works with ongoing support</li> </ul>	<ul style="list-style-type: none"> <li>•The student demonstrates some knowledge in relation to the learning standards</li> <li>•Works with some support</li> </ul>	<ul style="list-style-type: none"> <li>•The student demonstrates good knowledge in relation to the learning standards</li> <li>•Works independently</li> </ul>	<ul style="list-style-type: none"> <li>•The student demonstrates knowledge beyond the learning standards</li> <li>•Works independently and can support the learning of others</li> </ul>
			

# Curriculum:

**BIG IDEAS:** The curricular “Big Ideas” in mathematics outline the overarching themes that students will explore and conceptualize. Students should expect to understand the following:

- ❖ Number represents, describes, and compares the quantities of ratios, rates, and percents.
- ❖ Computational fluency and flexibility extends to operations with fractions.
- ❖ Discrete linear relationships can be represented in many connected ways and used to identify and make generalizations.
- ❖ The relationship between surface area and volume of 3D objects can be used to describe, measure, and compare spatial relationships.
- ❖ Analyzing data by determine averages is one way to make sense of large data sets and enables us to compare and interpret.

**CURRICULAR COMPETENCIES:** The curricular competencies are integrated through classroom activities and assignments. They highlight what students are expected to do throughout the course.

<p style="text-align: center;"><b>Reasoning &amp; Analyzing</b></p> <p>✓ Using logic and reasoning and logic to explore, analyze, and apply mathematical ideas.</p>	<p style="text-align: center;"><b>Understanding &amp; Solving</b></p> <p>✓ Develop, demonstrate and apply mathematical understanding through play, inquiry, and problem solving.</p>
<p style="text-align: center;"><b>Communicating &amp; Representing</b></p> <p>✓ Communicate mathematical thinking in many ways.</p>	<p style="text-align: center;"><b>Connecting &amp; Reflecting</b></p> <p>✓ Connect mathematical concepts to each other and to other personal interests.</p>

**CONTENT COMPETENCIES:** The content competencies are what students are expected to know by the end of the course.

- ❖ Perfect squares and cubes
- ❖ Square and cube roots
- ❖ Proportional reasoning (rates, ratios and percentages)
- ❖ Discrete linear relations
- ❖ Two-step equations
- ❖ Surface area and volume
- ❖ Pythagorean Relationship
- ❖ Theoretical probability
- ❖ Financial literacy

# Classroom Rules:

1. Treat others as you wish to be treated.
2. Be supportive by giving others your attention when they speak. Use your hand and wait your turn to speak.
3. Be encouraging of other students' thoughts, feelings, and ideas. Be inclusive of other students during group activities.
4. Use respectful language. Use English during class time.
5. Use constructive language when providing feedback or disagreeing with other peoples' opinions.
6. Work diligently on assignments and don't distract others when they are trying to focus on their work.
7. Come to class on time so that you don't disrupt the rest of the class.
8. Come to class prepared to participate in activities and ready to contribute to discussions.
9. Hand in assignments on time.
10. Be respectful of your environment. Clean up after yourself.
11. Be accountable for your own learning. Ask for help when you need it.
12. Wash your hands and maintain appropriate hygiene.
13. Come to class with a positive attitude each day and be ready to step outside of your comfort zone.