Math 8 Course Outline: Information for students and parents

Work Habits

* A “G” student: consistently has good attendance, participates in class, is respectful, does their assigned work, and tries their best to be successful.
* An “S” student: attends regularly, participates sometimes in class, is sometimes off-task, usually does their assigned work but could try harder to be successful.
* An “N” student: does not attend regularly, acts inappropriately in class, consistently does not do their assigned work and does not try to be successful.

# Student Expectations

* Attend regularly. All absences must be accompanied with a note giving a reason for the absence. It is the student’s responsibility to catch up on all missed work.
* Be on time with all necessary materials: pencil, eraser, notebook, textbook, graph paper, scientific calculator (for some units).
* Work that is assigned must be completed with all work shown. Answers only are not acceptable. Checking answers using the answer key is a required part of the assignment.
* Turn off your cell phone and put it away. It is NEVER OK to use it in class.

You can check my website [www.chargermath.yolasite.com](http://www.chargermath.yolasite.com) for lesson notes, important dates, skills practice and other information.

My email is Lori.Bernard@burnabyschools.ca. Please contact me any time if you have questions or concerns.

You made find some of the assignments are different than those you completed in school. Please resist the temptation to just show your child “the trick”, but rather support them as they work to find a thorough understanding of the concept and not just memorize a process. The students will be issued the textbook MathLinks 8 as a resource only; it does not match the current Math 8 curriculum. Several topics in the textbook will not be covered, and several Math 8 topics are not in the textbook and students will be work from supplementary materials.

# Assessment

The CHSS Mathematics Department uses a Cumulative Grading system. Each term mark will be a reflection of the student’s learning up until that point. The final mark will not be an average of each term but rather a mark showing the student’s level of mastery throughout the entire course. Cariboo Hill does not report percentages for Grade 8 or 9 courses. Students will receive letter grades on all summative assessments and on report cards.

The following curricular competencies will be assessed in Math 8. Some of these competencies will be assessed only in specific units, and others are assessed throughout the course.

Reasoning and analyzing

* Use logic and patterns to solve puzzles and play games
* Use reasoning and logic to explore, analyze, and apply mathematical ideas
* Estimate reasonably
* Demonstrate and apply mental math strategies
* Use tools or technology to explore and create patterns and relationships, and test conjectures
* Model mathematics in contextualized experiences

Understanding and solving

* Apply multiple strategies to solve problems in both abstract and contextualized situations
* Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving
* Visualize to explore mathematical concepts
* Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures

Communicating and representing

* Use mathematical vocabulary and language to contribute to mathematical discussions
* Explain and justify mathematical ideas and decisions
* Communicate mathematical thinking in many ways
* Represent mathematical ideas in concrete, pictorial, and symbolic forms

Connecting and reflecting

* Reflect on mathematical thinking
* Connect mathematical concepts to each other and to other areas and personal interests
* Use mathematical arguments to support personal choices
* Incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts

These curricular competencies will be taught and assessed in the context of the following topics:

* Ratios, Rates and Proportional Reasoning
* Understanding Percent
* Fraction Operations
* Surface Area and Volume
* Linear Relations
* Solving Linear Equations
* Roots and Powers
* Probability and Statistics
* Financial literacy
* Games of chance and strategy