

Carlton Math Department

The Aim of Mathematics: The K-12 aim of mathematics curricula is to help students develop the understanding and abilities necessary to be confident and competent in thinking and working mathematically in their daily activities and ongoing learning and work experiences. The mathematics program is intended to stimulate the spirit of inquiry within the context of mathematical thinking and reasoning.

The Goals of Mathematics: The K-12 goals of mathematics are:

- Logical Thinking – students will develop and be able to apply mathematical reasoning processes, skills, and strategies to new situations and problems
- Number Sense – students will develop an understanding of the meaning of, relationships between, properties of, roles of, and representations (including symbolic) of numbers and apply this understanding to new situations and problems.
- Spatial Sense – students will develop an understanding of 2D shapes and 3D objects, and the relationships between geometrical shapes and objects and numbers, and apply this understanding to new situations and problems
- Mathematics as a Human Endeavour – students will develop an understanding of mathematics as a way of knowing the world that all humans are capable of with respect to their personal experiences and needs

Outcomes: What students are expected to know and be able to achieve.

Math Website

The math department website can be accessed through Carlton's Home Page:

<https://www.carlton.srsd119.ca/wordpress/>. Select "students" then "departments" then "math". Or you can go directly to:

<https://www.carlton.srsd119.ca/wordpress/index.php/students/departments/math/>

On this site you will find links to each teacher's home page, outcome rubrics for the math classes, and video lessons for some of the classes (we are working to complete video lessons for all classes)

Math Help

Throughout the semester you may require some assistance outside of class time. There are some options for you:

- 1) Please take advantage of the free tutoring in the library Tuesday-Thursday after school from 3:30 – 4:30.
- 2) You can watch the video lessons that are on the math website
- 3) Please ask your teacher for their extra help schedule.

Math Necessities

Students will require a scientific calculator. They are unable to use a cell phone/ipod for a calculator during assessments.

Assessment

You will not see percentage grades on any of your assignments. Every assignment will be graded on a 4 point scale using a rubric. These rubrics are posted on the math website, so you can see what each level means. Instead of one overall grade for an assessment, you may have multiple levels for specific outcomes.

There has been a lot of research done recently on how the 4 point system is more effective than the 100 point scale. Students will have a better idea of where they are and what they need to do to get to the next level. The general math rubric is described below. For each outcome there will be a more specific rubric so that students will know exactly what they need to do to improve to get to the next level.

The student can continue to work on any outcome and reassess it throughout the year at the teacher's discretion. A minimum of level 2 is expected on **EVERY** outcome. At midterm, you will receive a progress report which will indicate what level each outcome is currently at. If there are any outcomes below a level 2, you are expected to continuing working on these.

You will NOT see a percentage grade until the final report card (math 9 will never see a percentage grade). This may be a change for many of you! Instead of focusing on what your "average" grade is, you can think about:

Are doing the best you can?
Are you learning and improving?
What outcomes do you still need to work on?
Are you meeting Level 2 on all outcomes?

There are videos explaining the reason for this change that you can watch. They are posted on the math website – "how to read the rubric video" and "how to read the progress report video". If you have more questions on this please feel free to contact your teacher!

General Math Rubric

<u>Beginning</u> Spend some extra time with the criteria and ask for help.	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	<u>Proficient</u> You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.
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