



École Charlie Killam School Program Details for Math 8

Mrs Ellert

I believe that all students can learn math to a high level, no matter their backgrounds or previous experiences. A key component in successfully developing numeracy is making connections to these backgrounds and experiences. Students learn by attaching meaning to what they do, and they need to construct their own meaning of mathematics. Students will benefit from working with a variety of materials, tools and contexts when constructing meaning about new mathematical ideas. Meaningful student discussions provide essential links among concrete, pictorial and symbolic representations of mathematical concepts.

Math Class Norms

- Everyone can learn math to the highest levels - *there is no such thing as a “math” person*
- Mistakes are valuable - *mistakes make your brain grow*
- Question Everything - *Always ask questions. Always answer questions. Ask yourself “why does this happen?” or “does this make sense?”*
- Creativity is Key- *math is about developing patterns and creating solutions*
- Connect and Communicate- *represent math in different forms (words, symbols, pictures) to connect mathematical concepts to your everyday life.*
- Math is about Learning, not Performing - *Math is a growth subject, so take risks and practice, practice, practice!*

Math is about recognizing that the “right answer” isn’t always what is interesting, but rather the path that you took to get there!

The following materials are required for each student:

a binder, loose leaf paper or a coiled notebook, pencils (restocked throughout the school year), erasers, calculator, Math Makes Sense 8 textbook

There are eight sections we will be encountering:

1. Numbers (Integers)
2. Fractions (Multiplying/Dividing & Order of Operations)
3. Percents, Ratio, Rate
4. Data Analysis & Probability
5. Algebra
6. Squares & Pythagorean Theorem
7. Prisms & Cylinders
8. Geometry

Each chapter may be made up of:

- Notes and learning activities,
- Formative assessment – important practice, but doesn't count towards grade,
- Summative assessment – assignments, projects, quizzes and a section exam that make up a student's grade.

Assessment: Marks will be weighted on importance/size of assessment. The course mark will be divided into the following proportions based on strand:

| | |
|--------------------------|-----|
| Numbers | 35% |
| Patterns & Relations | 25% |
| Shape & Space | 25% |
| Statistics & Probability | 15% |

Grading is cumulative or a running total. Therefore each grade entered gets added onto all the previously entered grades in Powerschool. Powerschool is updated often, please check regularly.

Go to <https://ckillam.brsd.ab.ca/> for more information regarding BRSD's assessment policy.

Guardians:

- We will be using **Google Classroom** as an integral part of our course. If you are not getting emails from Google Classroom for your student(s), please email me at jellert@brsd.ab.ca so I can set it up.
- I will also be posting all class notes on a **Class Website**. The link for this can be found [here](#) and will be on your student's Google Classroom.
- I will also be contacting guardians through School Messenger. If you have not set up your preferences for this service, please contact the school office at 780-672-7785.