

# Grade 8 Math Course Outline 2020/2021

Mrs. Erin Bernhard

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## Main Topics

- Square and principle square root of whole numbers.
- Percents greater than or equal to 0%.
- Rates, ratios, and proportional reasoning.
- Multiplying and dividing positive fractions and mixed numbers.
- Multiplication and division of integers.
- Analyze the models of displaying data and the reasonableness of conclusions.
- Probability of independent events.
- Linear relations
- Model and solve problems using linear equations.
- Pythagorean Theorem.
- Surface area of 3-D objects limited to right prisms and cylinders
- Volume limited to right prisms and cylinders.
- Tessellation.



## **Assessment:**

Formative assessment in each unit will be used to guide instruction and student learning. Students will be given ample opportunity to demonstrate what they have learned. Formative strategies include small quizzes, quick checks, entrance and exits slips, and conferences.

Summative assessment in each unit will be used for students to have the opportunity to showcase their learning. Summative tools include exams and quizzes, assignments, and projects.

## **Materials:**

- Binder and loose-leaf (or notebook and duotang)
- pencils, eraser, geometry set, ruler, calculator



## **Expectations:**

- Be on time and prepared for class with all materials
- Use breaks for washroom/drinks
- I dismiss you, not the bell
- Be respectful of self/others/school/environment
- Actively participate in class to the best of your ability
- Take responsibility for missed work (ask me or a classmate)
- Organize your notes/work
- Complete all work on time
- Devices are to be put away during class times unless instructed otherwise
- Come see me for clarification if needed

I look forward to a fantastic class, and am excited for the upcoming year. Feel free to email [erin.bernhard@horizonsd.ca](mailto:erin.bernhard@horizonsd.ca) or call (306-275-2133) me at any time with any questions or concerns.

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