Building Math Success

GRADE



Be Positive and Supportive

When you talk about math ideas and show how math is part of daily life, you are showing how math is important. You can encourage your child to think positively and be persistent as you work together to build math confidence and math understanding.





The goal of this document is to support parents and caregivers as they promote positive math thinking. It also provides an overview of what Saskatchewan students will be taught in school in Grade 9.

Make Math Real at Home

- Discuss how math is part of everyday activities, such as sports, music and art.
- Comment on and discuss the meaning of charts and graphs that you may see online or in the news and discuss factors that might affect the data collected. For example, discuss data collected for election polls.
- Estimate and/or calculate mathematical "events" in the home, such as how much new flooring is needed or the cost of a family vacation.
- Calculate discounts and find the least expensive options for things such as cell phone plans.
- Interpret and compare sports statistics.
- Talk about how decisions are made based on probabilities. For example, does the probability of precipitation impact your decision about tomorrow's activities?



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Overview of Grade 9 Math



Understand properties of a circle including chords, inscribed angles and tangents, and use knowledge of circle properties to solve problems. chord iamete Inscribed angle Extend understanding of surface areas of right rectangular prisms, triangular prisms, and cylinders to understand surface area of composite 3-D objects. SHAPE AND SPACE Cylinder Rectangular prism Triangular prism Composite 3-D object Determine the scale factor for 2-D shapes and create and explain enlargements and reductions of the shapes. Understand line and rotation symmetry. These objects have line symmetry: They can be These objects have rotation symmetry: They can be rotated around a center point and the object appears divided by a line into parts that are mirror images. the same. Understand the effect of factors such as bias, language, ethics and timing on data collection. STATISTICS AND PROBABILITY Complete a project that involves the collection, display and analysis of data. Explain examples of probabilities in society that may influence decisions. • A decision to begin smoking may be influenced by research saying that the risk of developing lung cancer is 0.2 percent for males who have never smoked and 24.4 percent for males who smoke more than five cigarettes per day.

Math Learning in the Classroom

Math learning occurs in many ways in the classroom. Teachers observe students during daily work, have conversations with students about math ideas and look at the results of their math work.

If you have questions about math in the classroom or if your child needs additional support, please contact your child's teacher.



Online Resources for Grade 9 Math Students

These sites were active at the time of publication. Please review them to determine if they are appropriate for your child's needs and interests.

- **NRICH math** interactive tasks and games for all grade levels: https://nrich.maths.org
- Math is Fun games, puzzles, a math dictionary and more: www.mathsisfun.com
- Mathpickle original math puzzles, games and problems: http://mathpickle.com

To view the entire Saskatchewan curriculum, go to www.curriculum.gov.sk.ca.