

GRADE 9 MATHEMATICS: PROGRAM OVERVIEW

The Grade 9 Mathematics curriculum includes the following topics: Rational Numbers, Statistics, Powers and Exponents, Linear Relations, Circle Geometry, Polynomials, Similarity, and Symmetry.

Emphasis in the course is to prepare students for their high school math career. Students will be provided with a variety of math related activities including problem-solving, group collaboration, using manipulatives and hands-on math learning. All math units are organized to build as students strengthen their understanding and skills, from beginning to intermediate to advanced outcomes. Generous amounts of time will be provided for students to practice and demonstrate their learning.

*A supplementary math course, Transitional Mathematics, will also be provided during class time to support the regular Grade 9 math course. Two credits will be granted for successful completion of the Grade 9 program.

Expectations:

- Regular attendance.
- Active participation, attempting questions at their level as they work through a unit.
- Completing assignments, reflecting on feedback, and working on corrections to improve skills.
- Teacher feedback is provided to strengthen skills and understanding.
- As students master outcomes, they move to the next level in the unit.
- Collaboration and respect for all during group work.

Assessment:

- Assessment methods are outcome based. An outcome is a skill or application of a skill or concept in a unit.
- Students are provided with frequent opportunities to demonstrate mastery of unit outcomes.
- Students are assessed on their best, most recent work in a unit.
- All math units are organized for students to build their understanding, step by step, from beginning outcomes to intermediate to advanced outcomes.
- Assessment for learning with teacher feedback: students can examine their work as they move through a unit, making corrections to improve.
- Students are provided with frequent opportunities to demonstrate mastery of unit outcomes.
- Students can practice and demonstrate learning through problem-solving activities, solving puzzles, mental math, exit slips, math journals, assignments, projects, quizzes and tests.
- Self assessment throughout a unit will also inform students of their own progress.

Keys to success: Regular attendance, active participation, and both completion and reflection on assignments and activities.

Advanced students will be provided with enrichment opportunities and math challenges.

Grade 9 Math Teachers:

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