



CROCUS PLAINS REGIONAL SECONDARY SCHOOL COURSE OUTLINE AND ASSESSMENT GUIDE

Course Name: GRADE 11 ESSENTIALS MATHEMATICS

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Course Description: Grade 11 Math Essentials

Text/Other Resources: Nelson Publishers, Mathematics for Apprenticeship and Workplace

Units of Study

Unit Title (10% each)	Learning Outcomes	Assessment Plan	Proposed Time (based on ~ 75 school days)
Analysis of Numbers	Analyze puzzles and games that involve spatial reasoning, using problem-solving strategies.	<u>Formative Assessment</u> Assessment may include: Daily classroom activities <u>Summative Assessment</u> None, skills learned to be integrated into other outcomes	Integrated over whole semester
Interest and Credit	Demonstrate an understanding of compound interest. Demonstrate an understanding of credit options, including: <i>*credit cards</i> <i>*loans</i> Solve problems that require the manipulation and application of formulas related to: <i>* simple interest</i> <i>* finance charges</i>	<u>Formative Assessment</u> Assessment may include: • Textbook Assignments • Mental Math • Quizzes • Math Journals • Conferencing • Group Discussions <u>Summative Assessment</u> Unit Tests/Quizzes/Projects	Approx. 10 days

3-D Geometry	Solve problems that involve SI and imperial units in surface area measurements Solve problems that involve SI and imperial units in volume and capacity measurements. Solve problems that require the manipulation and application of formulas related to: <i>*volume and capacity</i> <i>*surface area</i>	<u>Formative Assessment</u> Assessment may include: • Textbook Assignments • Mental Math • Quizzes • Math Journals • Conferencing • Group Discussions <u>Summative Assessment</u> Unit Tests/Quizzes/Projects	Approx. 10 days
Statistics	Solve problems that involve creating and interpreting graphs, including: <i>*bar graphs</i> <i>*histograms</i> <i>*line graphs</i> <i>*circle graphs</i>	<u>Formative Assessment</u> Assessment may include: • Textbook Assignments • Mental Math • Quizzes • Math Journals • Conferencing • Group Discussions <u>Summative Assessment</u> Unit Tests/Quizzes/Projects	Approx. 10 days
Managing Money	Solve problems that involve personal budgets Demonstrate an understanding of financial institution services used to access and manage finances	<u>Formative Assessment</u> Assessment may include: • Textbook Assignments • Mental Math • Quizzes • Math Journals • Conferencing • Group Discussions <u>Summative Assessment</u> Unit Tests/Quizzes/Projects	Approx. 10 days
Relations and Patterns	Demonstrate an understanding of slope: <i>* as rise over run</i> <i>* as rate of change</i> <i>* by solving problems</i> Solve problems by applying proportional reasoning and unit analysis	See next side	See next side

Relations and Patterns <i>continued</i>	Solve problems that require the manipulation and application of formulas related to slope and rate of change Solve problems that involve scale Demonstrate an understanding of linear relations by: <i>* recognizing patterns and trends</i> <i>* graphing</i> <i>* creating tables of values</i> <i>* writing equations</i> <i>* interpolating and extrapolating</i> <i>* solving problems</i>	<u>Formative Assessment</u> Assessment may include: • Textbook Assignments • Mental Math • Quizzes • Math Journals • Conferencing • Group Discussions <u>Summative Assessment</u> Unit Tests/Quizzes/Projects	Approx. 10 days
Trigonometry	Solve problems that involve two and three right triangles	<u>Formative Assessment</u> Assessment may include: • Textbook Assignments • Mental Math • Quizzes • Math Journals • Conferencing • Group Discussions <u>Summative Assessment</u> Unit Tests/Quizzes/Projects	Approx. 10 days
Design Modelling	Model and draw 3-D objects and their views Draw and describe exploded views, component parts, and scale diagrams of simple 3-D objects	<u>Formative Assessment</u> Assessment may include: • Textbook Assignments • Mental Math • Quizzes • Math Journals • Conferencing • Group Discussions <u>Summative Assessment</u> Unit Tests/Quizzes/Projects	Approx. 10 days

Assessment Guidelines

There are various purposes for assessment:

- ☐ Assessment *for* learning (**formative assessment**): where assessment helps teachers gain insight into what students understand in order to plan and guide instruction, and provide helpful feedback to students.
- ☐ Assessment *of* learning (**summative assessment**): where assessment informs students, teachers and parents, as well as the broader educational community, of achievement at a certain point in time in order to celebrate success, plan interventions and support continued progress.

Academic Achievement

Grades will be calculated on summative assessment information only. The final calculation will be a fair reflection of a student's achievement of the learning outcomes.

Term Work 80%

- ☐ Assignments/Projects = 40%
- ☐ Unit Tests/Quizzes = 40%

Final Assessment 20%

- ☐ Final Exam = 100%

Learning Behaviours

Assessment and reporting of learning behaviors will be according to the Brandon School Division Learning Behaviors Rubric.