



Mathematics 90 Course Outline Shape & Space, Patterns & Relations

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OBJECTIVES :

1. To instruct the basic course outline as prescribed by the Alberta Program of Studies and the Western & Northern Canadian Protocol.
2. To prepare students to proceed to Mathematics 10.
3. To develop worthwhile study habits, attitudes and values that will enhance students' success throughout high school.
4. To encourage students to work and learn on their own so that they are capable of using mathematics for reasoning and applying to practical situations.
5. To develop an ability to communicate mathematical ideas clearly and correctly to others.
6. To help students solve problems and grow in their capability to deal with new or different situations.

TEXT : Math Links 9, McGraw-Hill Ryerson Ltd., 2009. **COST: \$59.95**

COURSE CONTENT :

- Unit 1 – Symmetry and Measurement
- Unit 4 – Scale Drawings and Similarity
- Unit 5 – Polynomials
- Unit 6 – Linear Relations
- Unit 7 – Multiplying and Dividing Polynomials
- Unit 8 – Solving Linear Equations
- Unit 9 – Inequalities
- Unit 10 – Circle Geometry

MATH 90 EVALUATION:

Teacher Evaluations*	15%	*Teacher evaluations are methods used in the classroom to assess student progress. This may include reviews, assignments, and coursework.
Unit Tests (8)	40%	
Cumulative & Summary Review	5%	
Semester One Course	20%	

Final Exam (PAT)

$\frac{20\%}{100\%}$

GRADE 9 FINAL EVALUATION:

Students will write the Grade 9 Provincial Achievement Exam in June and this will count towards their final mark for Grade 9.

The final grade for Grade 9 will be calculated in the following format:

Math 90 Geometry Inquiry mark: 20% + Math 90 mark: 60% + Prov. Achievement Exam: 20%

EXPECTATIONS :

1. **Course Expectations:** Students require a final grade of 50% or above to be eligible to take Math 10C. Students who receive a grade below 50% in this course will automatically be placed in Math 10 – 3 or 10 – 4 next year.
2. **Attendance:** **ALL** classes are important, whether we are doing a lesson, activity, quiz, test or review. **Every missed class** is a missed opportunity to learn and will result in students putting in ample amounts of their own time to catch up. Students are to tell the teacher **IN ADVANCE** of field trips, vacations, tournaments, etc. and then to arrange a time to meet with the teacher prior to the absence in order to stay on top of the lessons. With the exception of an illness documented by a parent, **students who miss class and do not inform the teacher ahead of time will be expected to catch up on their own. For School Attendance Policy, see the Student Handbook on the Cochrane High Website.**
3. **Late Policy:** Students who are continually late for class will receive a detention, during their lunch, to make up time missed. Students who continue to arrive late to class after successive detentions will be referred to administration.
4. **Class Time:** Students are expected to be ready to start at the beginning of class, required to work until the end of class, and any remaining work is to be finished at home or in CONN3CT time. Mathematics is a skill, and practice is needed to become proficient. All assignments must be completed. If finished early, the student is required to review previous material. Students will **NOT** be excused from class once the tardy bell has rung. This includes washroom, water breaks, and locker use. (Washroom use is discretionary.)
5. **Homework:** Any work not completed in class must be done outside class time. Students are required to complete all assignments. Assignments will be presented to the teacher at the time requested. A unit outline and assignment due dates are recorded on the whiteboard in the classroom. Students need to make use of their CONN3CT class on a regular basis.
6. **Academic Misconduct:** Any students claiming another student's work as their own including tests, quizzes and assignments, will receive a zero and be referred to administration.

7. **Corrections for Half Marks:** Students may make corrections on selected assignments for half the missing marks. *Corrections are due prior to the completion of the next unit, and will only be graded during CONN3CT block or lunch.*
8. **Missing Tests/Assessments:** Students must write all forms of evaluation. Students who miss tests, collaborative inquiries, and/or review assignments will be required to complete the work in the CONN3CT block the next available day. Your teacher may request a doctor's note or certificate. All missing work will be entered as **NHI** or *missing* (defaulted to a zero) and must be completed as quickly as possible as it will negatively affect their grade.
9. **Unit Test Rewriting:** Unit tests are available for rewriting as long as conditions for the rewrite have been met. (Remedial work, study guides, coursework completion, etc.) These rewrites must be done outside of the regular class time. e.g. CONN3CT
10. **Math Help:** Extra help is available during the CONN3CT class. Anyone achieving less than 65% is presumed to be having difficulty with the material and is expected to seek extra help. Check with your teacher to make arrangements.
11. **Progress:** Every attempt is made to keep parents informed of students' progress in this class. Progress can be checked on *Power School* periodically. Parents are encouraged to phone or email the teacher if they have any questions or concerns.
12. **Materials Required:** A scientific calculator (with spare batteries) is required for math. Graphing calculators are **NOT** permitted. Pencils, pens (for grading), an eraser, a straight edge, a simple geometry set, and graph paper are also required.
13. **Food and Drinks:** Students may bring a small water bottle to class. Food and other drinks are **NOT** permitted. Exceptions can be made under special circumstances. (Extra help at lunch, etc.)
14. **Electronic Devices:** Electronic devices and cell phones are not to be turned **on** during class unless approved by the teacher. Cell phones must be on **Airplane Mode** if a student is planning to use it to listen to music while working. If a student is found to have any of these items **TURNED ON** during instruction time or causing a distraction while working in class, the item will be taken from the student and returned as per school policy. *Your focus and attention needs to be with the course content, not your social network.*
15. **Classroom Etiquette:** Students are NOT permitted to wear any jackets, hats, or any other type of headgear in class. Students are expected to maintain a tidy and clean classroom for the benefit of all students and staff. At the end of each class, please pick up any paper, etc. on the floor (even if you didn't put it there). All students are to be respectful of one another and the teacher. Appropriate language and dress are also expected. Students will be given one warning. Students may be asked to leave the room and/or report to the office if unable to meet this expectation.