



Grade 10 Math

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Course Description:

Over the course of the 2023-2024 school year, Nelson Mandela High School teachers will maintain an online course presence containing materials, resources, assignments and supports through our D2L environment. It is important for students to take an active role in their learning and stay current in their schoolwork if away for any reason.

Mathematics is one way of understanding, interpreting and describing our world. It has application in the sciences, economics, business, engineering, medicine, the trades and daily life just to name a few areas. The main goals of mathematics education are to prepare students to:

- solve problems and communicate and reason mathematically
- make connections between mathematics and its applications
- become mathematically literate and appreciate and value mathematics

Students who have met these goals will have gained an understanding and appreciation of the role of mathematics in society, exhibit a positive attitude toward mathematics and engage with perseverance in mathematical problem solving. In order to assist students in attaining these goals, teachers will provide opportunities for students to take risks, think independently, share and communicate their mathematical understanding and exhibit curiosity about mathematics and the disciplines' broader applications to the real world.

Grade 10 Math is a **de-tracked** course where students receive credit in one of the above courses based upon their demonstration of the curricular outcomes. For detailed information about specific curricular outcomes, please refer to Program of Studies for each Math Course.

Math 10-C/Math 10-3 Program of Studies

<https://education.alberta.ca/media/564028/math10to12.pdf>

Math 10-4 Program of Studies

<https://education.alberta.ca/media/1089101/kemath1020.pdf>

Plagiarism

When ideas are taken from other sources without giving credit, this is known as plagiarism. Plagiarism is the unacknowledged or unauthorized use of somebody else's words or ideas, **including AI-generated material**. We expect our students to act with academic integrity, and to use their own knowledge to demonstrate authentic learning. Student honesty and ethical behaviour is foundational to their schoolwork and in how they handle challenges. Our teachers support students' authentic and ethical learning through teaching when and how to cite resources.

When To Give Credit in Your Work

- When you are using or referring to somebody else's words or ideas from a magazine, book, newspaper, song, TV program, movie, web page, computer program, letter, advertisement, AI application or any other source.
- When you use information gained through interviewing another person.
- When you copy the exact words from somewhere.
- When you reprint any diagrams, illustrations, charts, and pictures.

Don't Need to Give Credit

- When you are writing your own experiences, your own observations, your own insights, your own thoughts, your own conclusions about a subject.
- When you are using common knowledge, common sense observations, or shared information.
- When you are using generally accepted facts.
- When you are writing up your own experimental results.

Academic Expectations

Students are expected to behave according to the CBE [Student Code of Conduct](#). Students who knowingly misrepresent the work of others as their own, or allow their work to be copied, act outside of the parameters of academic integrity. If this happens, we use [Progressive Student Discipline](#) so that teachers, parents, and school leaders can help students take responsibility for their learning to achieve their academic goals.

(<https://school.cbe.ab.ca/school/cbe-learn/teaching-learning/program-approach/academic-integrity/Pages/default.aspx>)

Math 10C			
Measurement		Relations and Functions	
M1 & M2	Linear Measurement	RF1, RF2, & RF8	Relations and Functions
M3	3D Objects	RF3, RF4, & RF5	Characteristics of Graphs
M4	Trigonometry	RF6 & RF7	Linear Relations
Algebra/Number		RF9	Systems of Equations
AN1 & AN2	Factors and Irrational Numbers		
AN3	Exponents		
AN4 & AN5	Polynomials' Products and Factors		

Math 10-3			
Measurement		Geometry	
M1	Metric Measurement	G1	Puzzles
M2	Imperial Measurement	G2	Pythagorean
M3	Linear Measurement	G3	Polygons
M4	Area Problems	G4	Trigonometry
Algebra/Number		G5	Lines and Angles
A1	Formula	G6	Angles
N1	Proportional Reasoning		
N2	Income		

Math 10-4			
Number		Shape and Space	
N1/3/5/6	Estimating Numbers/Apply Operations	SS1/2/12	Units of Measurement
N2/4/10	Representing Numbers	SS3/5	Measurement Conversions
N7	Reasonableness	SS4	Solving Problems Involving 2D and 3D Shapes
N8	Rates	SS6/7/13	Angles
N9	Powers	SS8/9/10	Circles
Patterns and Relationships		SS13	Time
P1/2	Recognizing Patterns	SS14/15	Interpreting Scale
P4	Graphing Relationships	SS16	Drawing Scale Diagrams
P3/5/6	Variables	SS17	Translations & Reflections
Stats and Probability			
SP1/3	Interpret Data		
S2/4	Data Collection and Representation		