Halifax West High School
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Contact

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- ✓ Math 10
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- ✓ Parents and students please to refer to the HRSB *Assessment, Evaluation, and Communication of Student Learning* Policy accessible at http://www.hrsb.ns.ca/

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Course Introduction

Mathematics 10 is an academic high school mathematics course which is a pre-requisite for all other academic and advanced mathematics courses. Students who select Mathematics 10 should have a solid understanding of mathematics from their junior high years. This means that students would have demonstrated satisfactory achievement of outcomes in Grade 9 math.

Topics include: measurement systems, surface area and volume, right triangle trigonometry, exponents and radicals, polynomials, linear relations and functions, linear equations and graphs, solving systems of equations, and financial mathematics.

Upon successful completion, students earn two credits: one Math credit at Grade 10 level and one "other" Grade 10 credit towards NS Graduation requirements.

Diversity Statement: Halifax West High School welcomes students from all over the world and it is my intent to create a safe learning environment that is inclusive of all. It is vital that we remain respectful of diversity: gender, sexuality, disability, age, socioeconomic status, religion, ethnicity, race and culture. At times, class materials we use may present world views that differ from our own. Please speak to me should a situation arise where you feel uncomfortable or offended so the issue can be addressed. I am open to discussing concerns and seeking acceptable solutions to address issues. I value all of my students and believe there is strength in our diversity. Please let me know if you prefer a name or use pronouns that are different from what is indicated on Powerschool.

Evaluation

When determining a students' final grade:
- ✓ *No single assessment tool (i.e. presentations, labs, demonstrations, portfolios, debates, written tests/quizzes) will account for more than half of the value of each Gradebook category*
- ✓ *Learning trends over time will be considered, more recent student work and the teacher's professional judgment*
- ✓ ***Students will participate in a final cumulative assessment opportunity that allows them to demonstrate an appropriate range of the learning outcomes and process skills involved in the course. This final assessment is a provincial written exam and is worth 20% of the final course grade.***

Students in Math 10 will explore the following units and topics:

Measurement (25%): Imperial and metric measure; Surface area; Volume; Trigonometry ratios; Problem solving

Algebra and Number (30%): Factors and multiples; Perfect squares and perfect cubes; Multiplying polynomials; Factoring polynomials; Radicals; Exponents; Laws of exponents

Relations and Functions (30%): Graphs; Linear relations; Slope; Parallel and perpendicular lines; Equations of lines; Distance and midpoint; Systems of linear equations; Problem solving

Financial Mathematics (15%): Currency exchange; Income; Personal budgets

*Copy of the Course Outcomes can be found on my website.

Assessment Practice

Students will be provided with multiple opportunities to demonstrate their progress toward achievement of outcomes.

- ✓ Assessment **for** Learning/Formative Assessment is the ongoing process of gathering and interpreting evidence about student learning for the purpose of determining where students are in their learning, where they need to go, and how best to get there; instructional strategy that takes place while the student is still learning and served to promote learning
- ✓ Assessment **of** Learning/Summative Assessment is the process of analyzing, reflecting upon, and summarizing assessment information and making a judgment and/or decision based upon the information gathered.
- ✓ Assessment will take many forms, and will include observations, conversations, and products.
- ✓ Assessment Tools include, but are not limited to homework probes, quizzes, in-class assignments, tests, projects, and the final exam.

Exam: The provincial exam will be based on the entire year and is worth 20% of the final grade. The exam will be written in June.

Tests: Tests are major assessments and will be announced several days in advance. Expect tests to be cumulative throughout the year.

Quizzes: Quizzes provide opportunities to assess ongoing progress and give indications as to whether extra help is needed. Quizzes are generally short and will be announced in advance.

Assignments (ICA): Assignments will be given and graded on a regular basis. They may be in class or take home, individual or group effort, as indicated by your teacher. Submissions will not be accepted after the corrected assignments have been handed back to students.

Skill Checks: Skill Checks are short evaluations based on recent work. Students must be sure to keep up with their work on a daily basis and come in for extra help when needed.

Note: Marks throughout the semester will adhere to these proportions:

Tests and Quizzes	**50%**
Assignments and Skill Check	**50%**

Creating Opportunities for Success (reference school code of conduct)

- ✓ Students are expected to attend class regularly, be punctual, be prepared with appropriate materials, and homework complete.
- ✓ Students are expected to take an active part in their own learning, and follow the HWHS school code of conduct (as outlined in the student handbook).
- ✓ Students are expected to demonstrate responsible use of technology.
- ✓ Students are expected to make positive contributions to the learning environment.

Procedural Expectations

Students are responsible for:
- ✓ *Seeking assistance with assignments when required;*
- ✓ *Requesting an extension for assignments in a timely manner when required;*
- ✓ *Completing assignments by specified due dates so that teachers can provide timely feedback;*
- ✓ *Responding to feedback provided during the learning process.*
- ✓ *In the event that a due date for an assignment is missed, it will be at the discretion of the teacher and principal to extend the deadline.*
- ✓ *Students who do not adhere to the extended deadline will have missed that opportunity to demonstrate achievement towards the outcomes addressed in that assignment.*

- ✓ When an assessment is missed due to an absence, students/ parents are asked to communicate with the teacher to arrange for the assessment to be completed.
- ✓ Students are **unable** to exempt the final exam for **any** math course, however attendance, lates, and completion of major assessments in math courses will still be considered when applying for exemptions in other courses.

Communication Tools

Halifax West High School will use a variety of methods to communicate student achievement throughout the school year.

- ✓ Parents and students are encouraged to monitor progress (as well as lates and absences) using the PowerSchool portal.
- ✓ Assessments may be coded as collected, late, missing, or not included in final grade. There may also be comments listed, such as areas of improvement or dates for negotiated extensions.
- ✓ When assessments start to be categorized in a new strand, these assessments are initially weighed heavily and may cause significant change in a student's overall grade. This weighting will become more balanced as assessments continue to be included in the new strand.
- ✓ While HWHS has a number of scheduled opportunities for communication between home and school (Curriculum Night, Parent-Teacher Interviews, Mid Term Reports, Final Report Cards), parents and students are encouraged to contact the teacher any time during the semester to discuss progress.

Accessing Help

In order to be successful in Math 10...
- ✓ Extra-help is available at lunch (or by appointment before and after school)
- ✓ **Attend** regularly and be on time
- ✓ Be an **active learner**
  - o *Read about the topic in advance, use a highlighter, ask questions, use multiple resources to fully explore the material, focus your attention on the material and avoid the distractions of texting and socializing*
- ✓ **Study** regularly and attempt all homework independently
- ✓ **Communicate** with your teacher and seek extra help when necessary

Equipment Needs

- ✓ Students will be assigned a text that they should bring to class daily or be able to access the electronic version via Google Classroom(*Foundations and Pre-Calculus Mathematics 10 (Pearson), Financial Mathematics (McGraw-Hill Ryerson)*
- ✓ All Math class work is required to be completed in **PENCIL ONLY**
- ✓ Students should have a separate notebook/scribbler for class notes
- ✓ Students will need a binder with loose-leaf to use for classroom work
- ✓ Other materials for the course include a **scientific calculator** (No cell phones!)