Dartmouth High School
95 Victoria Road, Dartmouth, NS, B3A 1V2
Phone: (902) 464-2457
Fax: (902) 464-2384 dhs@hrsb.ns.ca
www.dhs.ednet.ns.ca

Contact

- ✓ Name: Renu Da Silva Website: http://renudasilva.weebly.com/
- ✓ Course: Math 10
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- ✓ Email: rdasilva@hrsb.ca Phone: 902-464-2457 Extension: 4001216
- ✓ Parents and students please to refer to the HRSB *Assessment, Evaluation, and Communication of Student Learning* Policy accessible at http://www.hrsb.ns.ca/

Term Mark: 80% Final Provincial Exam: 20%

Math 10 is a two-credit academic course that runs for the full year.

Course Introduction

Students in Mathematics 10 will explore the following topics: Measurement Systems, Surface Area and Volume, Right Triangle Trigonometry, Exponents and Radicals, Polynomials, Linear Relations and Functions, Lin-ear Equations and Graphs, Solving Systems of Equations, and Financial Mathematics.

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, whether a written examination or alternative assessment opportunity, will be worth no more than 30%.*

Strands include:

25% Measurement (Ch 1, 2): Imperial and metric units of measure, surface area/ volume of right pyramids/ cones/ spheres/ hemispheres, applying the primary trig ratios (sine, cosine, tangent).

25% Algebra and Numbers (Ch 3, 4): Prime Factorization, Greatest Common Factor, Lowest Common Multiple, Perfect Squares/ Cubes, common factors of polynomials, factoring quadratic equations, multiplying polynomials, factoring special cases of

polynomials (difference of squares, perfect squares, expressions in two variables), estimating roots, irrational numbers, mixed and entire radicals, fraction exponents, negative exponents, laws of exponents.

35% Relations and Functions (Ch 5, 6, 7): Representing relations, properties of functions, interpreting and sketching graphs, graphs of relations and functions, properties of linear relations, interpreting graphs of linear functions, calculating slope, slopes of parallel and perpendicular lines, forms of linear equations, systems of linear equations, solving systems of linear equations, properties of systems of linear equations, applying systems of equations.

15% Financial Mathematics (Financial Math Text): Unit Price, currency exchange, gross pay with and without overtime, wages and salary, net pay, calculating deductions (tax, CPP, EI, etc.), commission, budgets.

Semester One: Measurement/ Algebra and Numbers
Semester Two: Relations and Functions/ Financial Mathematics

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.

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 DHS 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

Dartmouth 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 late and absences) using the Power School 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 DHS 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

- ✓ Extra-help/feedback is provided everyday towards the end of the class. Further help can be accessed at lunch by contacting me.
- ✓ Regularly and actively attend classes and edit log book
- ✓ Students can access the textbook electronically at *pearsoncanada.com/fpcmath10* (please contact the teacher for access code).

Equipment Needs

- ✓ Students will be assigned a text at the beginning of the semester. Students are expected to bring the text every day, as it is the main resource for the course.
- ✓ Students will need a binder with loose-leaf to use when taking class notes, and completing practice problems.
- ✓ Other materials for the course include a scientific calculator, pencil, eraser, pen, highlighter, ruler, and graph paper.

Acknowledgement of Receipt of Course Outline from Parent and Student

I have read the communication plan:

Signature of Student: _____ Date: _____

Signature of Parent/ Guardian: _____ Date: _____

If you have any questions about the communication plan, please contact me at the contact information listed above.