Math 20-1 Course Syllabus

- **Teacher:** Mr. Dowler
- **Time:** 8:35-9:35 Monday - Friday,
- **Course Duration:** Monday, January 31, 2022 - Thursday, June 30, 2022
- **Textbook:** Pre-Calculus 11, McGraw-Hill Ryerson
- **Contact email:** dowler@headwayschool.org
- **Contact Phone:** 780-466-7733 (school switchboard)
- **Google Classroom Code:** daqcfv4
- **Khan Academy Classroom Code:** [2bt3jp6](#)
- **Perusall Classroom Code:** DOWLER-3ZH9V

Overview

Math 20-1 is your next step on the journey to more advanced topics in mathematics, as well as a bridge to the mindset needed to succeed in post-secondary mathematics. Emphasis is placed on algebra, numbers, functions, relations, and trigonometry.

Classroom Rules

1. **Respect Others:** Everyone has a right to learn, and people learn best in a safe and comfortable environment. Disrespectful conduct or behaviour, including anything which disrupts the ability of others to learn, will not be tolerated.
2. **Respect Yourself:** "Everyone" includes you. If you do not understand a concept, ask for help, in class or via email. The education we provide belongs to you. Take it. This does not mean it is a gift: effort will be required on your part. You must be willing to put in the work needed.
3. **Late Policy:** Assignments are due according to the published deadline. Late assignments will be accepted up to two school days late, but at a penalty. (School days are Monday-Friday inclusive, except holidays.) It will be to your advantage if you submit homework via Google Classroom and Google Docs when possible, either by uploading photos of the work, or by typing them in a document and submitting them that way. (If you plan to go into any mathematical field, you will be using equation editors of some kind. You might as well get used to them now!)
4. **Assignment Schedule:** To promote retention, homework for each topic will be spread out over three days of instruction. So, if a topic is introduced on Monday, short assignments on that topic will be given on Monday, Tuesday, and Wednesday, each of which is due on the next school day. Therefore, most school days will involve three different assignments on three different topics.

5. **Academic Honesty:** If there is evidence that the work turned in under your name is not your own, credit will not be given for that work. In addition to the score of 0%, additional consequences will be involved.

Course Units

The course is divided into 7 units, weighted as follows. The first three units will be covered prior to midterms, and the last four units will be after midterms. These units represent the 20 curricular outcomes in this course, each of which will be equally weighted.
- **Unit 1:** Rational Expressions and Equations (4 outcomes, 11 classes)
- **Unit 2:** Quadratic Equations (4 outcomes, 9 classes)
- **Unit 3:** Radical Equations (2 outcomes, 7 classes)
- **Unit 4:** Absolute Value Functions (2 outcomes, 7 classes)
- **Unit 5:** Systems of Equations and Inequalities (3 outcomes, 8 classes)
- **Unit 6:** Sequences and Series (2 outcomes, 9 classes)
- **Unit 7:** Trigonometry (3 outcomes, 9 classes)

Mark Distribution

All 20 curricular outcomes will be equally weighted. The weighting of marks will be as follows.
1. Homework…………………………………...10%
2. Tests……………………………………………50%
3. Midterm and final……………………………...40%

	Homework	Tests	Midterm and Final	Total
Unit 1	2%	10%	8%	20%
Unit 2	2%	10%	8%	20%
Unit 3	1%	5%	4%	10%
Unit 4	1%	5%	4%	10%
Unit 5	1.5%	7.5%	6%	15%
Unit 6	1%	5%	4%	10%
Unit 7	1.5%	7.5%	6%	15%
Total	10%	50%	40%	100%

To receive credit for homework in a course, you need to achieve an IXL SmartScore of 50 or better. For assignments that are assigned through CK12.org, Khan Academy, or paper homework, you need a 50% or better.

Testing Policy

At the end of each unit, we will have a practice test that will be similar to (but certainly not identical to) the unit exam. The practice test will not be considered for report card grades. It is an opportunity for each student to identify the areas in which further practice is needed prior to the unit exam.

Test Corrections Policy

Qualifying students will have the opportunity to improve their test scores after the test has been completed. To qualify, you must **submit all homework for a given unit on time.** Once that criteria is met, you may submit detailed corrections to your tests. To be sufficiently detailed, your submission must include the following:
- What thought process led you to your original answer.
- Why that thought process was flawed.
- What the correct thought process should have been.
- What the correct answer is.

Thus, each question will likely have at least one paragraph in its correction. These corrections may earn back 0.5 marks for each mark that was not earned on the original test. (Therefore, you may turn a 0% into a 50%, or a 60% into an 80%.) Corrections are due **prior to** the next major assessment (i.e. midterm or final).

Pandemic Support

All classes with new content will be recorded and uploaded to YouTube. This will be done to support students who have chosen to take their class online, as well as those who intend to come to school but are forced to go into lockdown for one reason or another. Similarly, should we be forced to go into lockdown at any time, we'll be poised to make an immediate transition to online learning. This includes creating free student accounts at SmarterMarks to support online testing should the need arise.

Similarly, it is preferred that all homework is submitted online via Google Classroom throughout the school year, thereby reducing the number of people who touch any given document. Math can be cumbersome to type, so students are welcome to photograph or scan their work and upload the image files.