

# Mathematics 30-2

## Course Outline

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of calculus. Topics include geometry, measurement, number and logic, logical reasoning, relations and functions, statistics, and probability.

**Instructor:** Mr. Hooper, Mrs. Marchand

**Text:** It is recommended that students use “Foundations of Math 12 Workbook”. The workbook can be purchased for a cost of \$20.00.

**Prerequisite:** Math 20-1 or Math 20-2

**Objectives:** The main goals of mathematics education are to prepare students to:

- solve problems
- communicate and reason mathematically
- make connections between mathematics and its applications
- become mathematically literate
- appreciate and value mathematics
- make informed decisions as contributors to society.

**Outline:**

TOPIC	Emphasis of Course (%)
Logical Reasoning & Set Theory	17%
Permutations & Combinations	17%
Probability	16%
Exponential & Logarithmic Functions	13%
Applications of Exponents & Logarithms	12%
Polynomial & Sinusoidal Functions	13%
Rational Expressions & Equations	12%
Analyzing Puzzles & Games	0%

<b>Evaluation:</b>	<u>School Based Mark</u>		<u>Final Mark</u>
	Unit Tests	50%	School Based Mark
	Quizzes	30%	Diploma Exam
	Review Assignments	20%	70%
			30%

**Expectations:**

1. A graphing calculator is mandatory for this course. Bow Valley High recommends the Texas Instrument TI-84 Plus CE, as this is what the instructors use. Other calculators may be used but it is the responsibility of the student to know how to operate it. Calculators may not have any programs/notes in them. Calculators will be checked at every formal evaluation (quizzes, unit exams, final exam), and will be cleared of program and/or notes.

2. Clearly show how you arrive at answers. Answers only are not acceptable. Homework will be checked periodically. Marks will be awarded for completion and procedure. You are expected to complete all assignments.
3. Students need to attend regularly. Absences may seriously affect your overall success. In the event of an excused absence, it is the student's responsibility to find out what must be completed and, with the teacher, determine a mutual agreed upon timeline for all missed work to be handed in for marking. If the work is not completed within this timeline, the student will be notified, and zeros will be assigned for the work missed. "I didn't know about it", or "I wasn't here" are not acceptable excuses, and credit will not be awarded for any incomplete assignments when the student has made no effort to speak to the teacher whose classes have been missed.
4. Students must be responsible to write all unit exams. Exams will be written on scheduled days. A mark of zero will be awarded to students who miss exams due to an inexcusable absence. Make-up exams will not be given to students who do not follow this procedure. Students who do follow the procedure may be given a make-up exam (at the teacher's discretion).
5. It is the student's responsibility to ensure that they have a clear understanding of the concepts covered. Extra help is available during the lunch break Mon.-Thurs. Please make arrangements with the teacher for extra help.

**Tests:** All student work will be retained within the classroom. Students may have access to his/her work during the school day.

**Procedure when Absent:**

1. From a regular class: If you have been away from a regular class, you are required to obtain missed notes and assignments from a fellow student. In the case of a prolonged absence you must make arrangements to collect missed notes and assignments. The teacher may be consulted prior to an absence for assistance or missed assignments. Absenteeism is not a valid excuse for missed assignments. Assignments and notes are your responsibility. Late assignments will not be accepted.
2. From a quiz: If you have an excusable absence, then the quiz will not count and your mark is unaffected. If the absence is inexcusable, you will get zero.
3. From an exam: If the absence is excusable, then you may be required to write the exam at the earliest possible date (at the teacher's discretion) .
4. From homework check: You must show the assignment on the day of your return. It is **your** responsibility to show the teacher the completed assignment. The instructor is **not** going to come to you for the assignment.

**Food and Drink:** Snacks and drinks are allowed as long as garbage is put in the garbage/recycle bins.

**Personal Computers :** will have limited use in this math class but please bring to each class.

**Appeal Procedure:** See student handbook.

**\*\*SEE IMPORTANT LINKS ON THE FOLLOWING PAGE\*\***

**Important Links:**

**Moodle:** website used by teachers to post assignments, forums, quizzes, dates, etc...

<http://moodle.rockyview.ab.ca>

**RVS G-mail:** all students have been given an email account by Rockyview Schools

[www.google.ca](http://www.google.ca)

**Podcasts:** Recorded lessons can be view from here.

<http://bobcats.rockyview.ab.ca>

**For all accounts:**

Username: [firstnamemiddleinitiallastname@rvschools.ab.ca](mailto:firstnamemiddleinitiallastname@rvschools.ab.ca)

Password: student ID number