



# Eagle Butte High School

# MATH 30-2

## Course Outline 2025-26



**Google Classroom: ybbrtvk**

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The Math 30-2 course is designed to provide students with the mathematical understandings and critical thinking skills identified for daily life, direct entry into the workforce, and post-secondary studies programs that do not require the study of calculus. Algebraic, numerical, and graphical methods are used to solve problems. This course is designed for students to construct their understanding of mathematics by developing meaning based on a variety of learning experiences. Math 30-2 is an intensive course that integrates previous skills learned as well as many new skills. The focus of learning will be on developing a conceptual and procedural understanding of mathematics.

**Students encounter situations that will allow them 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

## **COURSE CONTENT:**

### **Relations and Functions**

- ❖ non-permissible values, rational expressions, rational equations, logarithms, exponential equations, polynomial functions, sinusoidal functions

### **Probability**

- ❖ odds and probability statements, mutually exclusive and non-mutually exclusive events, fundamental counting principle, independent and dependent events, permutations, combinations

### **Logical Reasoning**

- ❖ numerical and logical reasoning, analyzing puzzles and games, set theory

### **Research Project**

- ❖ research and present on a current event or an area of interest that involves mathematics

## REQUIRED MATERIALS:

- Binder with dividers
- Lined loose-leaf paper or Notebook (50-100 pages)
- Graphing Calculator (TI-84 Plus or TI-83 Plus)
- Pencils, Pens, Erasers & Ruler
- Textbook – Principles of Math 12 (Nelson)

## TENTATIVE TIMELINE:

### # of classes

Total = 82

Logical Reasoning (Puzzles & Games)	1
<b>UNIT 1:</b> Polynomial & Sinusoidal Functions	15
<b>UNIT 2:</b> Rational Expressions & Equations	13
<b>UNIT 3:</b> Set Theory	5
<b>Units 1-3 Review &amp; Cumulative Exam #1</b>	3
<b>UNIT 4:</b> Permutations & Combinations	11
<b>UNIT 5:</b> Probability	8
<b>Units 1-5 Review &amp; Cumulative Exam #2</b>	4
<b>UNIT 6:</b> Exponential & Logarithmic Functions	16
Final Review	6
<b>Diploma Exam</b>	January 19, 2026

## EVALUATION:

70% of the student's final mark comes from course work, which is the school-awarded mark. The remaining 30% comes from the diploma exam.

### **COURSE WORK:** (School Mark)

**Cumulative Exams** 35%

Exam #1 = 15%, Exam #2 = 20%

**Unit Exams** 35%

**Summative Assessments** 30%

Quizzes & Assignments

**Students are expected to take responsibility for their progress and achievement. If there is a concern or you feel an error has been made, please discuss it with me!**

## EXAMS

**It is YOUR responsibility to prepare for all your tests/quizzes.**

- If a student is absent for any quizzes/exams, they will be expected to make arrangements with the teacher to write the exam/quiz in a timely manner.
- When students are absent the day of a test, they will be given a different version of the test AND may void their privilege to rewrite that particular test.
- Requests to not write the test on the planned day will not be honoured.
- Tests need to be completed in one sitting and students will be permitted double time.
- Teachers will not help with answering questions while a student is writing a test it is important to study and be prepared for the test on the day of the test.

## REWRITE POLICY

**If a student feels that their mark is not reflective of their ability, they will have the opportunity to re-write any unit test at the end of each semester.**

However, the following conditions must be met:

- The test will be written outside of class time.
- The re-write mark will become the new mark whether it is higher or lower than the original mark.
- There will be NO rewrites on open book quizzes, cumulative exams, or final exam.

## ACADEMIC DISHONESTY (as taken from Student Handbook)

**Examples of academic dishonesty include, but are not limited to:**

- Taking someone else's work or ideas and passing them off as one's own including:
  - copying from another student
  - copying/downloading from the internet
  - taking and/or sharing pictures of assessments
  - use of any Artificial Intelligence (A.I.) programs like, but not exclusive to, ChatGPT or Photomath
  - Anything copied either in whole, in part (even if just brief parts like the main idea or one example or sentence), or in concept. This also includes the rewording of sentences or ideas to make it look like your own work
- Those who allow their work to be copied/share their work are aiding in the process and therefore **JUST AS RESPONSIBLE AND LIABLE** to be held to the same consequences as the student who handed in the plagiarized work.

Depending on the severity of the violation, the offending student(s) may suffer any or all of these consequences in consultation with the teacher and/or Administrator's discretion.

**Consequences include, but are not limited to:**

Redoing the assignment.....Parent contact.....A mark of zero on work submitted.....

Detentions.....Referral to the administrator.....Phone must be handed in to the office - see cell phone procedure

**My goal is for you to experience success in math, and I am here to support you every step of the way.**

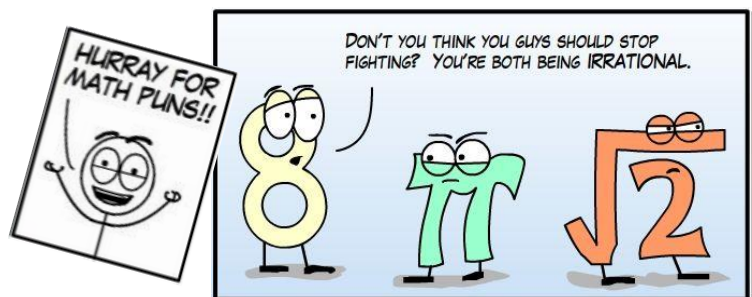
To be successful, you must also *want it for yourself* and *believe* you can reach your goals. These four strategies will help you get there:

- Be an active listener and stay engaged during class
- Use class time to complete your work
- Ask questions when you don't understand a concept
- Keep up with the assigned work each day

**AT THE END OF THE DAY  
WHO YOU ARE IS TOTALLY  
& COMPLETELY UP TO YOU**

### Classroom Expectations

- Respect yourself, classmates, and school staff.
- Be in class and be on time for class.
- Be prepared to listen, learn & participate.
- Be prepared for class.
  - Be ready to work before the bell rings. Bring all your supplies that you will need (binder/notebook, pencil, eraser, calculator, water bottle).
- No cell phones at any time during class.
- Healthy food and drinks are permitted in the classroom.
- Students are not permitted to leave class without teacher permission.



## CLASSROOM PROCEDURES FAQ's

### What if I am absent?

When possible, let me know ahead of time that you are going to be absent. It is the student's responsibility to catch up on any missed work. If you are absent for a quiz/exam, you will write it the day following your absence during TAG, lunch, or after school. Please talk to me to arrange a time.

### What if I was absent and there was something handed out that I missed?

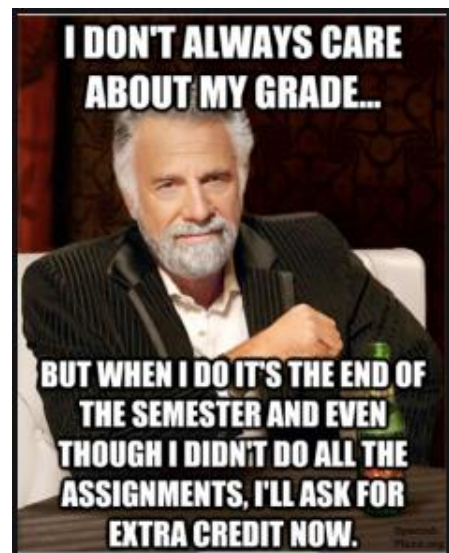
Each class has a designated drawer in the rolling cart at the front of the room. If you were absent and missed a handout, you can find your copy there.

### Can I leave class early if I am done my work?

The simple answer is no. Class is over when the bell rings. In math, there is always more work to do. You can make flashcards or study for the next quiz/test or do extra practice questions. Please do not pack up or leave class until the bell rings to signal class is over. Use your class time wisely...more time spent working during class = more concepts learned = less/no homework in the evenings.

### Extra Help

I expect you to use your class time wisely – be an active listener, ask questions, take notes, and work on assigned questions during class time. With 75-minute classes, that is a lot of time to work on math. The best time to get help is daily, as you are working on questions in class. Do not wait until the last minute to ask for help! For example, coming in the day before or day of a test and needing help on the entire unit is setting yourself up for failure. TAG is a perfect opportunity to get the help you need. If TAG isn't enough time, talk to me about getting help during lunch as well.



### What is a Quick 3 Quiz?

Almost every day will begin with a quick 3 quiz or a checkup. The intention of this is to help you recall previous concepts and improve your understanding.

### What if I arrive late?

A student who is not in the classroom when the second bell rings is considered late. Please don't disrupt the class if you arrive late. Enter the room quickly and quietly and find your seat. Too many lates = detention at lunch...& a late contract...

### What if I behave inappropriately?

Inappropriate behaviour will not be tolerated. Please refer to the student handbook. Detentions will be served at lunch time for inappropriate behaviour. If you skip your detention, you will not be allowed in class until you serve it.

### May I use the washroom during class time?

Please try to go to the washroom before class, but of course you may ask to use the washroom if it is necessary (at an appropriate time, such as after the lesson is done and it's work time). You are not to go elsewhere (ie. other classrooms, hanging out in the hallway, the office, etc...). If you are found somewhere else during your washroom break, you will lose the privilege of using the washroom during class.

### Where do I hand in quizzes and/or tests?

All quizzes and/or tests go in the black basket on the corner of my desk.

### How do I communicate with Mrs. Brost?

Please talk to me if you ever have any questions or concerns, or just want to chat...I would love to get to know you better! I would say I'm pretty easy to track down...before school, during class, during TAG, at lunch, or after school...

### My final piece of advice for a successful semester...



### Links & Resources

The following is a list of QR Codes and Links you may find useful for this semester.



Eagle Butte Website  
<https://eaglebutte.myprps.com/>



AB Education  
(Diploma Exam Information)  
<https://bit.ly/31jdes5>



The Grand Math  
Connection  
<https://mathpqiq.com/>



ExamBank – Math 30-2  
<http://alberta.exambank.com>  
Login: pr  
Password: exam



Quest A+ (Practice Tests)  
<https://questaplus.alberta.ca/>



Khan Academy (free tutorial videos)  
<https://www.khanacademy.org/>