

Advanced Topics of Algebra 2

Ms. Walstrum

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Ms. Johnson

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Welcome
to our
class

Course Description

This course is designed to further student understanding of content initially presented in Algebra II. Topics include linear, quadratic, radical, rational, exponential, and logarithmic functions, as well as applications of algebraic functions. This course was developed collaboratively with Chesapeake College to prepare students for entry into a college level, credit-bearing mathematics course and is aligned to the MAT 032 course at Chesapeake College. Students must have satisfactorily completed Algebra II (CCR). The use of a 4-function or basic scientific calculator is permitted, **NO graphing calculators**.

Expectations*

BE Respectful

BE Present

BE Prepared

BE Mindful

*All policies in the school/county handbook will be followed.

Materials

- Notebook/binder
- pencils/erasers
- laptop/schoolguy
- Calculator (4-function or basic scientific calculator)
- Textbook (optional)

Grading

50% Mastery (7)

50% Progress (at least 24)

Students may retake a **Mastery Assessment** (unit test) if they score below a 70%. Mastery assessments could be unit tests, projects or a cumulative assessment for the course.

Progress grades can be from classwork, homework, warm-ups, quizzes and/or other work completed for the course.

Work will be considered LATE after 3 school days and deduction of points will occur. Assignments will not be accepted after 10 school days.

Academic Honesty

All students at Queen Anne's County High School are expected to conduct themselves with great pride in academics and the community at large. To this end, it is expected that all students will maintain academic integrity in every assignment. Work must be completed individually unless otherwise directed by the teacher. **Plagiarism** is a severe offense at QACHS and will result in immediate consequences. The use of Photomath and other electronic sources is a form of plagiarism.

Attendance

Students must log into our class on schoology every school day to be counted as present. Students should attend live sessions and complete daily work to keep up in the class. The teacher/school should be contacted if a student will be absent from class. Students are responsible for all missing work due to an absence.

Online Learning Expectations

Synchronous – Join the video conference on time and have materials ready. These materials include pencil, paper, calculator and any websites needed to complete math work. Have Schoology open and ready to go in a browser. You are expected to be on the video conference for the duration of class. Please find a quiet place in your house and give yourself an area to work.

Asynchronous – Assignments that are asynchronous are to be done on your own; however, I am available for help during the designated asynchronous period. Also during this time you may be asked to attend a video conference for small group instruction. Small group instruction, if assigned, is mandatory.

Check-in Day – Every Wednesday there will be a brief 10 minute video conference or check in to provide a brief period of instruction and to ensure all students are on track with the current assignments. Students will also complete an asynchronous assignment on check-in day.

Office Hours – Every day except for Wednesday there are Office Hours set aside for reteaching, 1:1 or group tutoring, small group instruction and student/parent meetings. You may schedule a time during office hours for tutoring. You may also attend a tutoring or instructional video conference during office hours. Office hours are considered part of the school day, so tutoring or conferences scheduled during this time are mandatory. If there is an instructional conflict during the requested time, we will work together to find a time that works.

Course Outcomes

- Factor Polynomials
- Solve Quadratic Equations and apply to real world
- Simplify rational and radical expressions
- Perform basic operations on rational/radical expressions
- Simplify radical expressions that contain rational exponents
- Solve rational/radical equations
- Graph quadratic equations
- Solve simple logarithmic/exponential equations
- Use trigonometry with right triangles to solve equations

THE PERSON WHO
DOES THE WORK IS
THE ONLY ONE WHO
LEARNS.

- HARRY WONG

Schoology Code of Conduct

1. While on Schoology, what I say and how I say it will be school appropriate.
2. I will use posts to discuss school-related content only.
3. I will use a respectful tone of voice when posting. All school rules and consequences related to harassment apply to Schoology.
4. I will use appropriate grammar instead of texting language.
5. I will not reveal any personal information on Schoology. This includes telephone numbers, addresses, emails, etc.

Inappropriate Content: If you think there is something inappropriate posted on Schoology, please tell your teacher immediately!

Schedule

Monday: Check-in @ 12:45
Tuesday: Live @ 12:45 - 1:30
Wednesday: Check - in @ 12:45
Thursday: Check-in @ 12:45
Friday: Live @ 12:45 - 1:30

Small group sessions during office hours daily. I can require you to meet or you can request a session.

How to succeed....

- Attend class daily
- Do the work...practice makes perfect
- Ask questions
- Take notes
- Attend small group sessions
- Ask for help
- Form a study group...help each other
- Learn from your mistakes

”STOP BEING
AFRAID OF WHAT
COULD GO WRONG
AND START BEING
EXCITED ABOUT
WHAT COULD GO
RIGHT.”

UNKNOWN

The only way
to **learn**
mathematics
is to **do**
mathematics.

PAUL HALMOS