

## Algebra 2

### Pleasant Valley High School

### Course Information: 2019-2020

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- **Course Description**

The purpose of this course is to satisfy the Algebra II requirement of the Common Core Mathematics Standards adopted by the State of Iowa. This upper level course extends what students have learned in Algebra I and Geometry as well as introducing more advanced topics and should prepare most students for Pre-Calculus or Probability/Statistics.

The kind of learning activities in which students will engage can be described as cooperative group investigations, partner collaboration, or individual work. Each is designed to help students understand and explain the key concepts presented in this course. Students will experience hands-on activities, incorporate real world applications, and participate in class discussions with open-ended problem solving, while using 21<sup>st</sup> century skills such as: creativity/innovation, communication, collaboration, critical thinking, problem solving, and decision making.

- **Units of Study**

- Unit 1: Polynomial, Rational, and Radical Relationships
- Unit 2: Trigonometric Functions
- Unit 3: Modeling with Functions
- Unit 4: Inferences and Conclusions from Data

More information on these units is available at:

[http://www.corestandards.org/assets/CCSSI\\_Mathematics\\_Appendix\\_A.pdf](http://www.corestandards.org/assets/CCSSI_Mathematics_Appendix_A.pdf)

- **Required Texts**

There is no formal text for this class. Students may refer to the on-line resources, including videos to review material; all are available through the Algebra 2 website.

<http://pvhsalg2.weebly.com/>

- **Required/Suggested Supplies**

- 1 - 2 inch 3 ring binder with dividers and notebook paper
- writing utensils (pencil required for assessments/homework)
- TI-84 (or TI-83) graphing calculator (highly suggested).
  - calculators (20) are available for use during class only
  - [www.desmos.com](http://www.desmos.com) is an on-line calculator for use anywhere



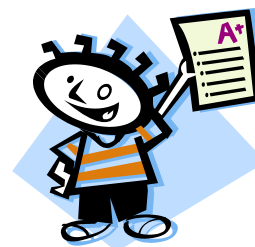
## **GRADING:** - refer to the PV grading scale for percentages/letter grades



- **Homework** –
  - Homework will be worth 20% of the quarter grade.
  
- **Assessments** –
  - Assessments will be worth 80% of the quarter grade and will include both skills quizzes and summative assessments.
  - Students will be notified of quizzes/tests in advance.
  - Practice problems and solutions will be available on the Algebra 2 website.

## **SEMESTER GRADES:**

- 44% for each quarter
- 12% for the final exam



## **RESOURCES:**

- The Algebra 2 website on the Pleasant Valley High School Home Page under teacher pages ( <http://pvhsalg2.weebly.com/> ) will be the most important resource for you this school year.
- 8<sup>th</sup> Hour – The school day DOES NOT end at 2:45. Use 8<sup>th</sup> period as an opportunity to clarify concepts that are unclear.
- Students not meeting class expectations may be assigned to an 8<sup>th</sup> period study table or Academic Study Hall (ASH).
- The binder you create in class with notes and practice problems is your most valuable resource. Keep it current and accurate!

This is a learning environment. Any students exhibiting behaviors that take away from another person's opportunity to learn will be dealt with appropriately.