

AP Statistics

Morton High School



AP Statistics at a Glance

AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions.

Topics Covered:

Exploring One- and Two-Variable Data, Collecting Data, Probability, Random Variables, and Probability Distributions, Sampling Distributions, Inference for Categorical Data (Proportions & Chi-Square), and Inference for Quantitative Data (Means & Slopes).

Textbook:

Bock, David E., Paul F. Velleman, and Richard D. DeVeaux. *Stats: Modeling the World. Third Edition* Boston: Pearson/Addison-Wesley, 2010

Available Resources

All blank notes, completed notes, homework, answers to homework, blank reviews and answers to reviews are available on Schoology.

Absences

Students need to take the initiative to find out what was missed in class after an absence. All completed written notes and homework solutions are available online each day. Please see the Schoology page before asking questions. See the top folder on the class page to find the most recent materials. Emails are much appreciated if there is confusion about notes, assignments or the student's absences leading up to an assessment.

Mathematical Practice Standards

All Morton High School Students will:

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for and make use of structure
- Look for and express regularity in repeated reasoning

Grading Procedures

A Total points system is used to calculate grades. Grades are determined by dividing an individual student's accumulated point total by the total number of points possible.

Tests: 100 points maximum
Quizzes approx 40 points
Homework 1 point
FRQ 5 points

Homework (1 pt): HW will be posted in schoology and should be submitted to Schoology. Homework is due the next day, however full credit can be received if turned in at the time of the major assessment (Quiz/Test). Any homework not completed at that time will receive a 0.

FRQ's (5 pts): FRQ's (Free Response Questions) are examples of problems that the college board uses on the AP Exam. Students are expected to give their best effort on these questions and should grade themselves honestly according to the scoring rubric provided. Students will then be asked to write a short reflective paragraph about what they learned from this problem/process

Extra Credit may be available at the teachers' discretion. As per department policy, the extra credit is worth 2% added to the semester grade percentage.

Quizzes and Tests are not able to be retaken.

Academic Assistance

It is always a good idea to come in to get extra help. I will be available before and after school for assistance on any topic. ***Do not wait until you are behind to come and seek help.*** Ask early and often if you are struggling in a particular area, We will be more than willing to give extra assistance with any topic.

Classroom Norms for Technology

Students will await further instructions given by the teacher. Students will listen for teacher's cue to close screen of iPad when whole-group attention is needed. Students will save/turn in work as needed and completely put away iPads when directed to do so. Students will visit only the websites listed in the activity, Schoology, or stated by the teacher. Any accidental deviation to an unauthorized website should be reported to the teacher immediately. Students will not eat or drink in the classroom when iPads are being utilized. **PHONES WILL BE SILENT AND PUT AWAY.** Failure to follow these norms may result in referral and/or confiscation.

Supplies Needed

- Notebook or Charged iPad for notes and/or homework
- Pencils
- TI-Nspire CX or CX II

Helpful Websites

PowerSchool is an excellent way to stay on top of your grades, tardies, and absences:

<https://ps1.morton709.org/public/home.html>

Schoology is where students AND parents access content, assignments, announcements and resources:

<http://mcusd709.schoology.com>

Class Expectations

- Students are expected to be active participants in the learning process. This includes participating in class discussions, thinking about questions posed by the teacher and by classmates, construct viable mathematical arguments, and to help create an atmosphere that is conducive to learning.
- Students are expected to be responsible students. Responsible students are ready to learn throughout class by having required materials, being respectful of others and self, and being focused on mathematics. Students are also expected to complete assigned tasks (homework, class work, and other assignments), and seek extra help from the classroom teacher, as needed. Furthermore, responsible students will correct mistakes on homework and quizzes and will do their best to learn for understanding.
- Students are expected to show knowledge of all course objectives and apply that knowledge to real world situations. Furthermore, retention of material beyond the unit assessments is necessary. Students are expected to apply previously learned mathematics to new content to strengthen their mathematical understanding. Students will be expected to apply algebraic, numerical, and graphical reasoning to solve problems and explain their reasoning to others.

