

Unit 2: Planning a Study

Content Area: **Mathematics**
Course(s): **Advanced Placement Statistics**
Time Period: **November**
Length: **29**
Status: **Published**

Career Readiness, Life Literacies & Key Skills

WRK.K-12.P.4	Demonstrate creativity and innovation.
WRK.K-12.P.5	Utilize critical thinking to make sense of problems and persevere in solving them.
WRK.K-12.P.8	Use technology to enhance productivity increase collaboration and communicate effectively.
WRK.K-12.P.9	Work productively in teams while using cultural/global competence.

Modifications:

ELL Modifications:

- Focus on domain specific vocabulary and keywords
- Offer resources for specific topics in primary language (Youtube web resources)
- one-to-one tutoring
- Tap prior knowledge
- Tutoring During Delsea One

IEP & 504 Modifications

- Allow student to take notes in class for reinforcement but also provide a copy of completed/correct notes to study from
- Model and show lots of examples
- Provide formulas on the test and/or sample problems
- Provide students with content vocabulary prior to teaching a lesson that contains that vocabulary (pre-teaching)
- Tutoring During Delsea One

G&T Modifications

- Determine where students' interests lie and capitalize on their inquisitiveness. (Is there a specific career they are interested in? How would this apply to their interest?)
- Encourage creative expression and thinking by allowing students to choose how to approach a

problem or assignment

- Encourage peer leadership or mentoring
- Provide additional rigorous challenge problems for advanced students

At Risk Modifications

- additional help during tutoring/Delsea One/Academic Enrichment
- modeling and showing lots of examples
- outlines & graphic organizers
- study guides
- visuals

Alternate Assessment

Performance tasks

Project-based assignments

Problem-based assignments

Presentations

Benchmark Assessment

Skills-based assessment- math practice

Resources & Materials

- AP Sample questions
- data investigations
- Establish a set of general strategies for student independence and self-evaluation
- Evoke student participation from their seats and at the board
- Independent/Cooperative learning explorations
- powerpoint: discrete and continuous random variables
- powerpoint: probability rules
- powerpoint: randomness, probability, and simultaions

- smartboard: binomial and geometric random variables
- smartboard: conditional probability and independence
- smartboard: transforming and combining random variables
- statsmonkey.com
- Teacher Generated Worksheets

Technology

- collegeboard.com online class
- excel: basketball shots simulation
- google classroom
- <https://kahoot.com/>
- <https://www.youtube.com/watch?v=gD6uzsJMR0o>
- <https://www.youtube.com/watch?v=jRZ0grDi5Wg>
- <https://www.youtube.com/watch?v=k7Z1iCBmSGA>
- <https://www.youtube.com/watch?v=mkDzml7YOx0>
- <https://www.youtube.com/watch?v=nejq9r9AnSA>
- <https://www.youtube.com/watch?v=rtY0qVF9cm0>
- <https://www.youtube.com/watch?v=t6G8mL0w4xM>
- quizlet.com
- statsmonkey.com
- ti-nspire: combining random variables
- ti-nspire: random number generator
- ti-nspire: simulations

TECH.8.1.12	Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.
TECH.8.1.12.A.4	Construct a spreadsheet workbook with multiple worksheets, rename tabs to reflect the data on the worksheet, and use mathematical or logical functions, charts and data from all worksheets to convey the results.
TECH.8.1.12.A.CS2	Select and use applications effectively and productively.
TECH.8.1.12.B.CS1	Apply existing knowledge to generate new ideas, products, or processes.