

Unit 4: Statistical Inference

Content Area: **Mathematics**
Course(s): **Advanced Placement Statistics**
Time Period: **February**
Length: **20**
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)
- Provide formal and informal verbal interaction to provide practice, increase motivation, and self-monitoring
- Tap prior knowledge
- Tutoring During Delsea One

IEP & 504 Modifications

- 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)
- Provide students with content vocabulary prior to teaching a lesson that contains that vocabulary (pre-teaching)
- Tutoring During Delsea One

G&T Modifications

- Ask students' higher level questions that require students to look into causes, experiences, and facts to draw a conclusion or make connections to other areas of learning

- 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 students to explore concepts in depth and encourage independent studies or investigations
- Provide additional rigorous challenge problems for advanced students

At Risk Modifications

- additional help during tutoring/Delsea One/Academic Enrichment
- outlines & graphic organizers
- speaking to students privately when redirecting behaviors
- study guides
- visuals

Alternate Assessment

Performance tasks

Project-based assignments

Problem-based assignments

Presentations

Reflective pieces

Benchmark Assessment

Skills-based assessment- math practice

Technology

- collegeboard.com online classroom
- google classroom
- <https://kahoot.com/>
- <https://www.khanacademy.org/math/ap-statistics/ap-statistics-practice/ap-stats-tests-of-significance/e/skill-check--chi-square-tests>

- <https://www.khanacademy.org/math/ap-statistics/ap-statistics-practice/ap-stats-tests-of-significance/e/skill-check--two-sample-tests-for-means>
- <https://www.khanacademy.org/math/statistics-probability/inference-categorical-data-chi-square-tests>
- <https://www.khanacademy.org/math/statistics-probability/significance-tests-confidence-intervals-two-samples>
- <https://www.khanacademy.org/math/statistics-probability/significance-tests-confidence-intervals-two-samples/comparing-two-means/v/hypothesis-test-for-difference-of-means>
- <https://www.khanacademy.org/math/statistics-probability/significance-tests-one-sample/idea-of-significance-tests/v/type-1-errors>
- <https://www.khanacademy.org/math/statistics-probability/significance-tests-one-sample/tests-about-population-mean/v/one-tailed-and-two-tailed-tests>
- <https://www.youtube.com/watch?v=a1Ye5RcWOqg>
- <https://www.youtube.com/watch?v=a1Ye5RcWOqg>
- quizlet.com

TECH.8.1.12.A	Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations.
TECH.8.1.12.B	Creativity and Innovation: Students demonstrate creative thinking, construct knowledge and develop innovative products and process using technology.
TECH.8.1.12.E	Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.
TECH.8.2.12.A	The Nature of Technology: Creativity and Innovation: Technology systems impact every aspect of the world in which we live.
TECH.8.2.12.C	Design: The design process is a systematic approach to solving problems.