

Unit V - Problem Solving and Data Analysis

Content Area: **Math**
Course(s):
Time Period:
Length: **6 Days**
Status: **Published**

State Mandated Topics Addressed in this Unit

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N/A	N/A

PROBLEM SOLVING AND DATA ANALYSIS

Learning Objectives

- Artists will write to learn annotations on SAT drill and practice assessments. The annotations will be short explanations of what / how they missed an answer. The purpose is to identify their repeated weakness and to develop a pattern of notes on their self-assessment of their SAT practice scores.
- The primary focus of this unit is to garner the artist's understanding of the importance of the SAT process, its use for college admissions, and why it is imperative to develop skills take the test. Our primary goal is to identify and implement test-taking strategies using prerequisite knowledge to increase artist's performance.
- To support the primary focus of this unit, the final elements of critical textual annotation will be taught to help artists learn the basic skill of noting evidence.

Essential Skills

Standards

Instructional Tasks/Activities

- Interpreting Relationships Presented in Scatterplots, Graphs, Tables, and Equations
- More Data and Statistics Part I
- More Data and Statistics Part II

- Ratio, Proportion, Units, and Percentage Part I
- Ratio, Proportion, Units, and Percentage Part II

Assessment Procedure

- Class discussions
- Classroom Total Participation Technique
- Classwork/homework
- DBQ
- Electronic active responders
- Essay
- Exit Ticket/Entrance Ticket/Do Now
- Identify the error problems
- Journal / Student Reflection
- Kahoot
- Other named in lesson
- Peer Review
- Performance
- Problem Correction
- Project
- Quiz
- Quizzes/tests
- Response and analysis questions
- Rubric
- Teacher Collected Data
- Teacher observations
- Test
- Worksheet

Recommended Technology Activities

- Appropriate Content Specific Online Resource
- Chromebook
- Gimkit
- GoGuardian
- Google Classroom
- Google Docs
- Google Forms
- Google Slides

- Kahoot
- MagicSchool AI
- Other- Specified in Lesson
- Quiziz
- Screencastify
- TI-Nspire CX-Cas activities throughout the unit as appropriate

Accommodations & Modifications & Differentiation

Accommodations and Modifications should be used to meet individual needs. Their IEP and 504 plans should be used in addition to the following suggestions.

Special Education

Modifications and accommodations to this unit will be based on individual IEP needs and through the collaboration of the classroom teacher and the special education teacher under the direction of the Supervisor of Special Education.

Gifted and Talented

- Compare & Contrast
- Conferencing
- Debates
- Jigsaw
- Peer Partner Learning
- Problem Solving
- Structured Controversy
- Think, Pair, Share
- Tutorial Groups

Instruction/Materials

- alter format of materials (type/highlight, etc.)
- color code materials
- eliminate answers
- extended time
- extended time

- large print
- modified quiz
- modified test
- Modify Assignments as Needed
- Modify/Repeat/Model directions
- necessary assignments only
- Other (specify in plans)
- other- named in lesson
- provide assistance and cues for transitions
- provide daily assignment list
- read class materials orally
- reduce work load
- shorten assignments
- study guide/outline
- utilize multi-sensory modes to reinforce instruction

Environment

- alter physical room environment
- assign peer tutors/work buddies/note takers
- assign preferential seating
- individualized instruction/small group
- modify student schedule (Describe)
- other- please specify in plans
- provide desktop list/formula

Honors Modifications

Resources

- A-List Textbook The Book of Knowledge, 2nd edition.
- College Board The Official SAT Study Guide, 2018 edition.
- College Board The Official SAT Study Guide, 2020 edition.
- Khan Academy website: <https://www.khanacademy.org/coach/dashboard>
- LinkIt website: <https://chartertech.linkit.com/Account/LogOn?ReturnUrl=%2f>
- The College Board website: <https://www.collegeboard.org/>
- The New York Times' Trilobites: <https://www.nytimes.com/column/trilobites>

- The Princeton Review 10 Practice Tests for the SAT, 2019 edition.
- Varsity Tutors website: https://www.varsitytutors.com/sat_critical_reading-help/passage-based-questions/social-science-history-passages?page=1