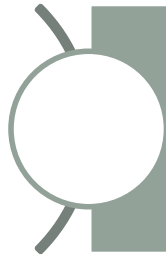


# Project 1: Standardized Test Analysis



## Problem Statement

**GOAL:** to analyze **average SAT scores** for the 3 years, following the adoption of the new version of **SAT - on the national and state levels**

Discover and review **major trends** in order to answer the following **questions:**

Has the new, improved and enhanced, format of the SAT test solved performance problems?  
Is the situation improving?

Should states require students to pass SAT or should they become more flexible and consider other ways of measuring students' preparedness?

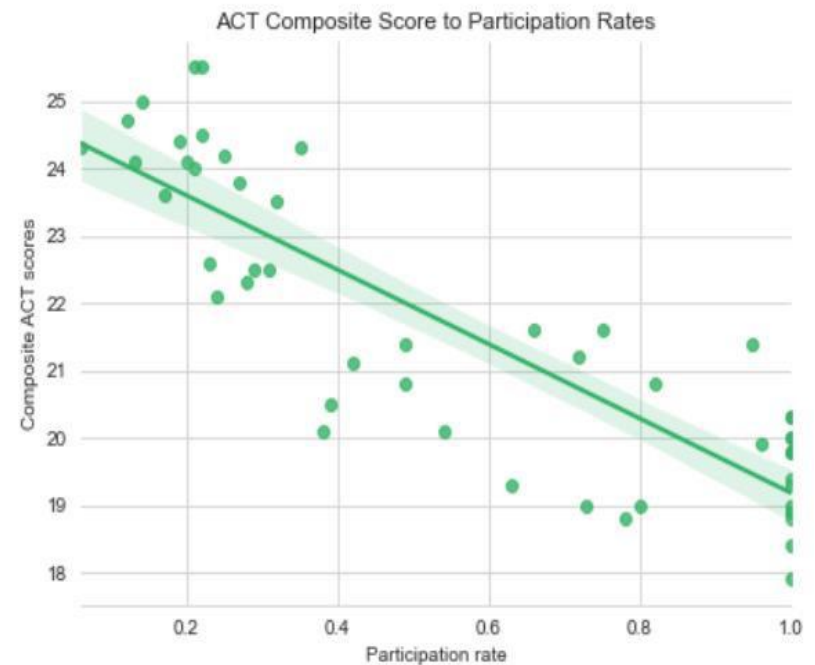
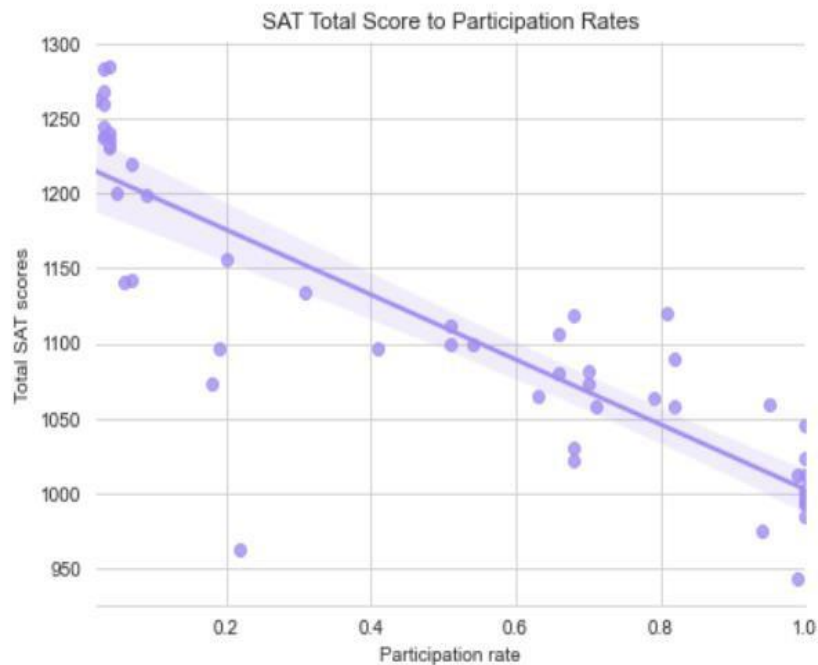
Has it become easier for students to prepare for both SAT and ACT tests concurrently and to earn competitive scores on both tests?

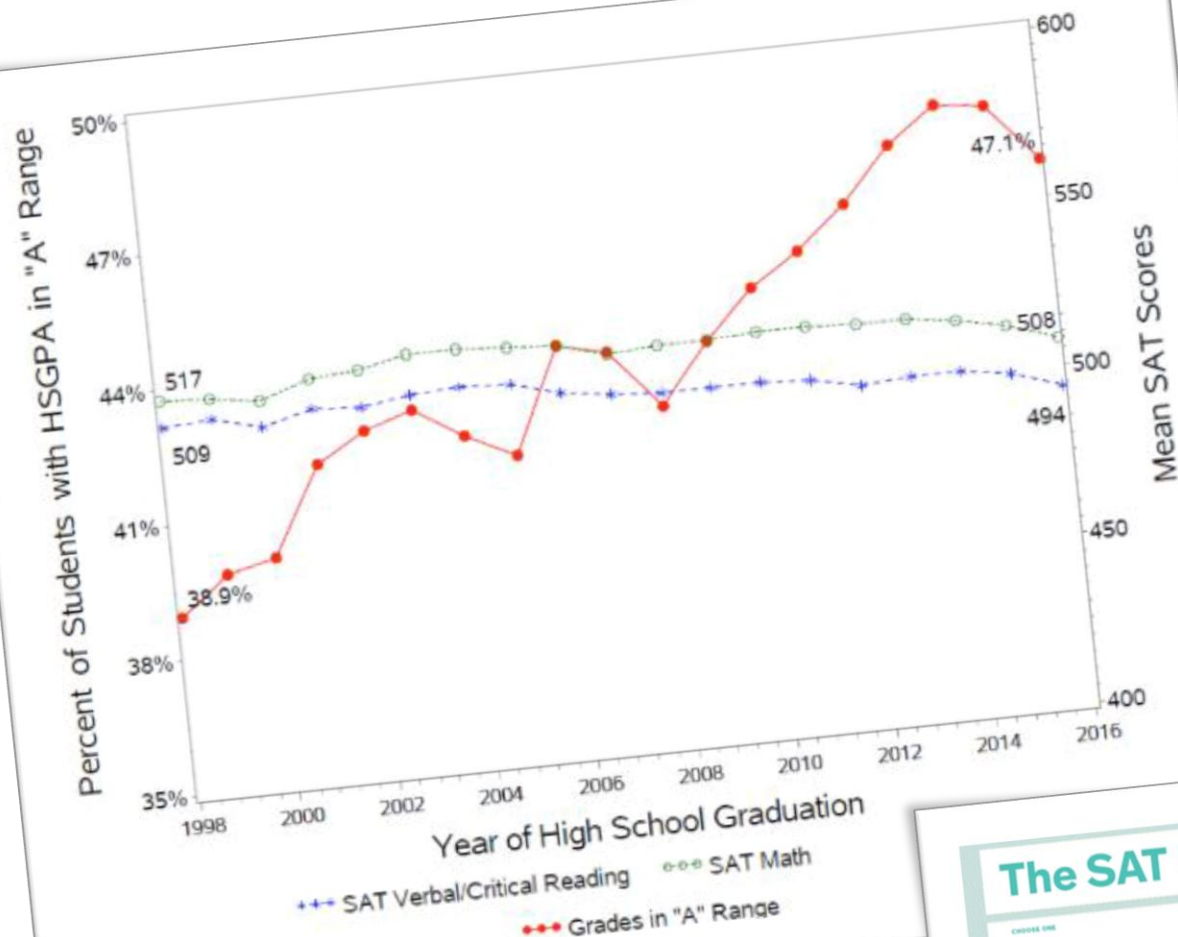
# Data dictionary

| Feature            | Type   | Dataset  | Description  |
|--------------------|--------|----------|--|
| State              | object | sat_2019 | One of the US states   |
| Participation Rate | object | sat_2019 | The percent of the students in a state, who took a SAT test (format: '##.##%')                     |
| EBRW               | int64  | sat_2019 | The average score for the 'Evidence-Based Reading and Writing' section of the SAT test - per state |
| Math               | int64  | sat_2019 | The average score for the 'Math' section of the SAT test - per state                               |
| Total              | int64  | sat_2019 | The average total score for the SAT test - per state.  |

There is a **strong negative correlation** between **participation rates** and **SAT / ACT mean scores**

**Participation should NOT be mandatory.**





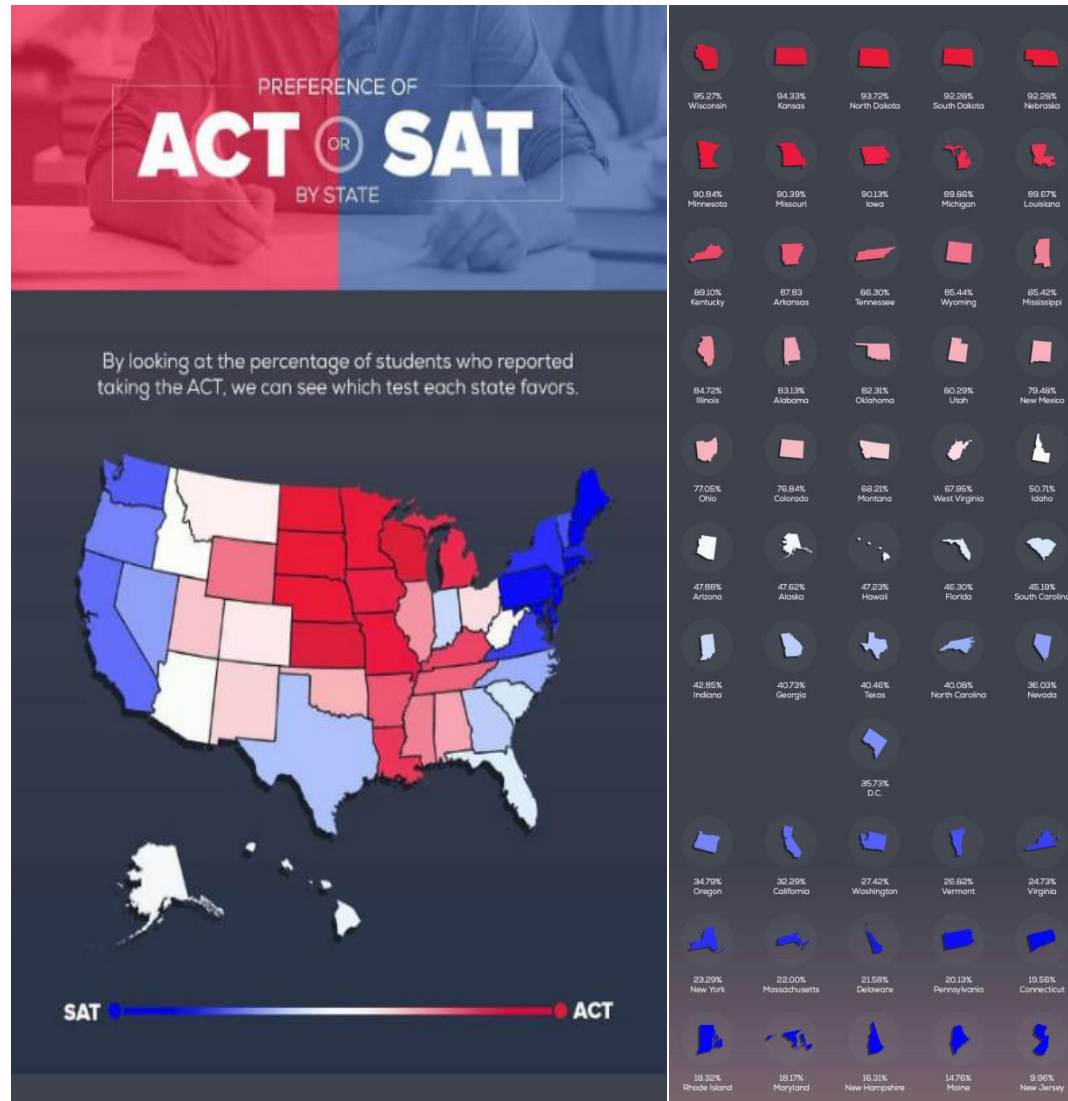
College admissions officers should be relying more on high school **GPA**, classes, which students took in high school, references, admissions interviews, and less - on SAT or ACT test scores.

(<https://www.kranse.com/blogs/news/2016-sat-scores-were-the-lowest-in-the-last-20-years>)

### The SAT Is Hated By:

- CHOOSE ONE
- ☐ A Stressed-Out Students
  - ☐ B Frustrated Educators
  - ☐ C Hamstrung Admissions Officers
  - ☐ D Anxious Parents
  - ☒ All of the Above

# Which states prefer SAT and which states - ACT?



(<https://www.collegeraptor.com/getting-in/articles/act-sat/preference-act-sat-state-infographic/>)