



# **California ACT & SAT Performance Analysis**

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01

# Purpose

A decorative graphic on the left side of the slide consisting of two overlapping squares. The bottom-left square is a dark blue, and the top-right square is a lighter blue, creating a cross-like shape.

# Problem Statement

This analysis aims to identify the state's worst-performing counties, districts and subjects.

This will allow the state to better understand their academic performance and see where additional resources are required.

A decorative graphic on the left side of the slide consisting of two overlapping squares. The top square is a lighter blue and the bottom square is a darker blue.

# Background

- Test Subjects
  - ACT: English, Math, Reading, and Science
  - SAT: Evidence-Based Reading and Writing & Math
- Established Benchmark Scores
  - ACT (Range 1 - 36): Composite (21)
  - SAT (Range 400 - 1600): ERW (480) & Math (530)
- Student Performance Factor
  - Quality of instruction & delivery style

# 02

## Data



# Datasets

- 2019 ACT Scores in California by School
  - Contains the average scores by test section (English, Reading, Math and Science) and the percentage of participants whose composite scores were greater or equal to 21.
- 2019 SAT Scores in California by School
  - Contains the percent of participants who met or exceeded the benchmark for Evidence-Based Reading & Writing and Math, both individually and together.

# Definitions

- Overall
  - All schools with recorded test data
- Worst-Performing
  - Schools where less than 10% of participants met or exceeded the benchmark score
- Benchmark Participant
  - Participant who met or exceeded the benchmark score



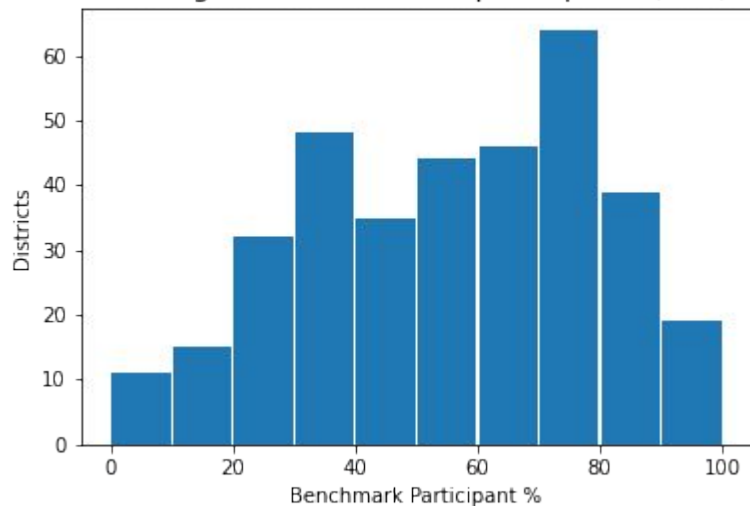


# 03

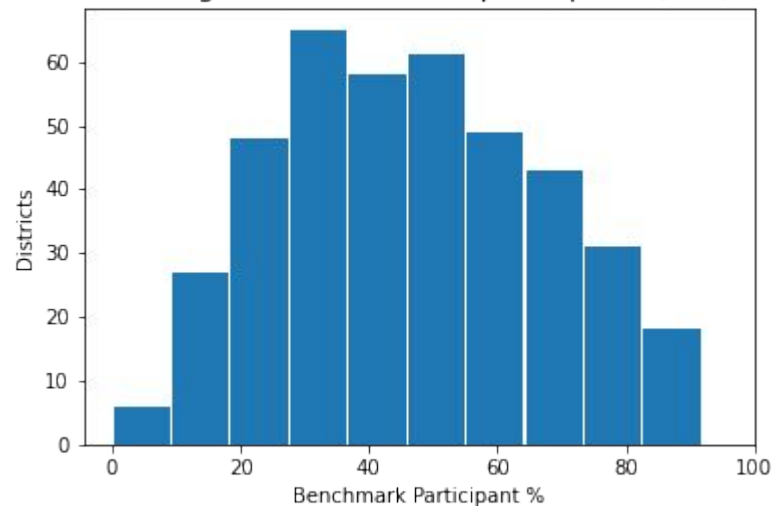
## Analysis

# California Test Performance by District

Distribution of districts based on their average % of benchmark participants (ACT)



Distribution of districts based on their average % of benchmark participants (SAT)



# California School, District & County Summary

<b>ACT</b>	<b>Total</b>	<b>&lt; 10% Benchmark Participants</b>	<b>% with &lt; 10% Benchmark Participants</b>
Schools	1,367	71	5.19%
Districts	353	29	8.22%
Counties	54	15	27.78%

<b>SAT</b>	<b>Total</b>	<b>&lt; 10% Benchmark Participants</b>	<b>% with &lt; 10% Benchmark Participants</b>
Schools	1,667	110	6.6%
Districts	406	38	9.36%
Counties	55	17	30.91%

# Counties and their number of districts with an average of < 10% benchmark participants

## ACT

1. Fresno - 6
2. Los Angeles - 5
3. Alameda - 2
4. Riverside - 2
5. Sacramento - 2
6. San Bernardino - 2
7. Santa Clara - 2
8. Contra Costa - 1
9. Kern - 1
10. Kings - 1
11. Modoc - 1
12. Monterey - 1
13. San Diego - 1
14. San Francisco - 1
15. San Mateo - 1

## SAT

1. Los Angeles - 10
2. Riverside - 4
3. Fresno - 4
4. San Bernardino - 3
5. Alameda - 2
6. Santa Clara - 2
7. San Diego - 2
8. Orange - 2
9. Colusa - 1
10. Monterey - 1
11. Sacramento - 1
12. Kern - 1
13. Inyo - 1
14. San Francisco - 1
15. Contra Costa - 1
16. Sonoma - 1
17. Ventura - 1

## The Overlap

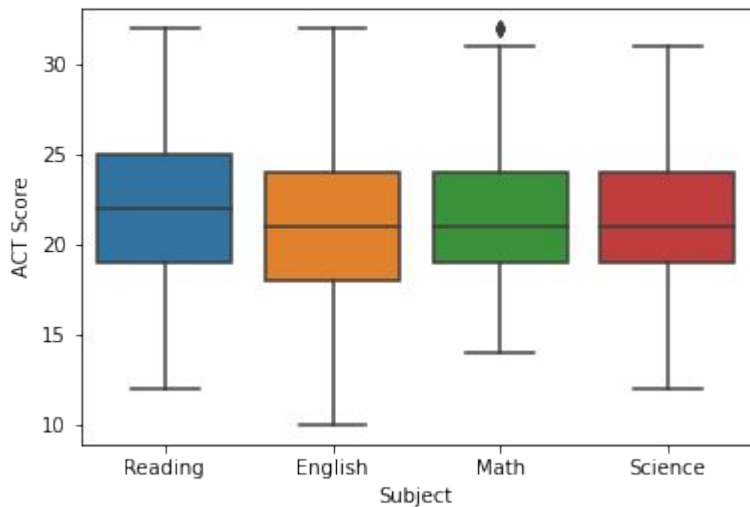
- |  |  |
|--|--|
| <ol style="list-style-type: none"><li>1. Los Angeles - 11</li><li>2. Fresno - 6</li><li>3. Riverside - 6</li><li>4. San Bernardino - 5</li><li>5. Alameda - 3</li><li>6. Sacramento - 3</li><li>7. Kern - 2</li><li>8. Orange - 2</li><li>9. San Diego - 2</li><li>10. Santa Clara - 2</li></ol> | <ol style="list-style-type: none"><li>11. Colusa - 1</li><li>12. Contra Costa - 1</li><li>13. Inyo - 1</li><li>14. Kings - 1</li><li>15. Modoc - 1</li><li>16. Monterey - 1</li><li>17. San Francisco - 1</li><li>18. San Mateo - 1</li><li>19. Sonoma - 1</li><li>20. Ventura - 1</li></ol> |
|--|--|

# Identified counties and districts

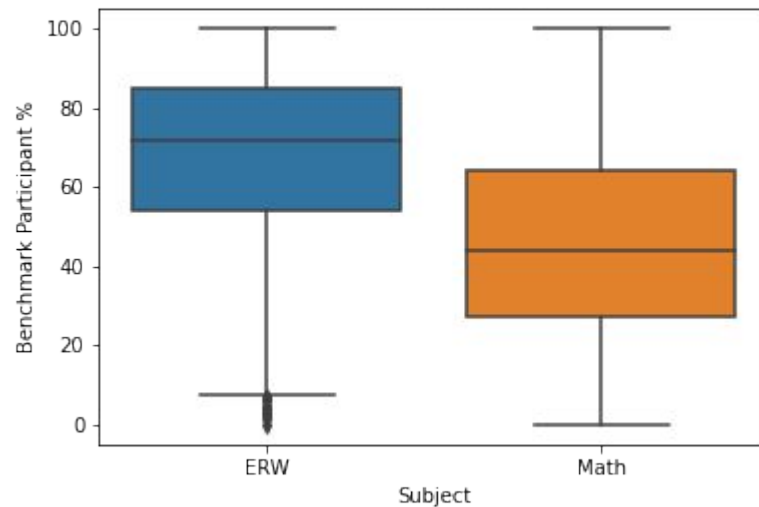
Los Angeles	Fresno	Riverside
<ol style="list-style-type: none"><li>1. Acton-Agua Dulce Unified</li><li>2. <a href="#">Antelope Valley Union High</a></li><li>3. Compton Unified</li><li>4. <a href="#">Covina-Valley Unified</a></li><li>5. Inglewood Unified</li><li>6. <a href="#">Long Beach Unified</a></li><li>7. Los Angeles County Office of Education</li><li>8. <a href="#">Los Angeles Unified</a></li><li>9. Norwalk-La Mirada Unified</li><li>10. <a href="#">Paramount Unified</a></li><li>11. SBE - Academia Avance Charter</li></ol>	<ol style="list-style-type: none"><li>1. Firebaugh-Las Deltas Unified</li><li>2. <a href="#">Fresno Unified</a></li><li>3. Golden Plains Unified</li><li>4. <a href="#">Kings Canyon Joint Unified</a></li><li>5. Mendota Unified</li><li>6. <a href="#">Washington Unified</a></li></ol>	<ol style="list-style-type: none"><li>1. California School for the Deaf-Riverside (State Special Schl)</li><li>2. <a href="#">Hemet Unified</a></li><li>3. Moreno Valley Unified</li><li>4. <a href="#">Palm Springs Unified</a></li><li>5. Riverside County Office of Education</li><li>6. <a href="#">Val Verde Unified</a></li></ol>

# Performance by Subject: Overall Averages

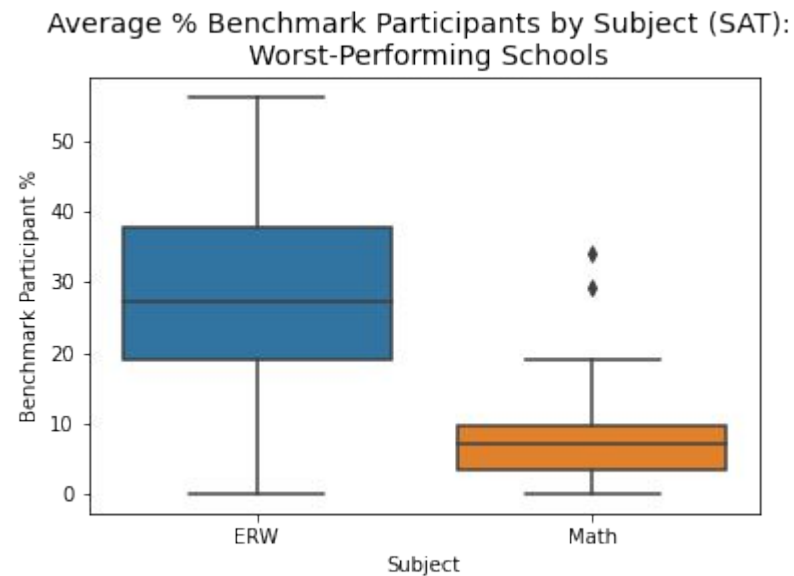
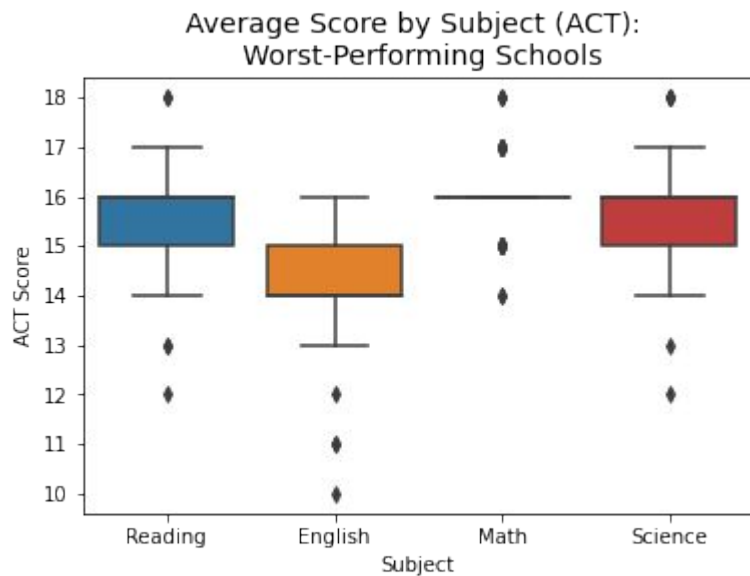
Average Score by Subject (ACT):  
Overall Schools



Average % Benchmark Participants by Subject (SAT):  
Overall Schools

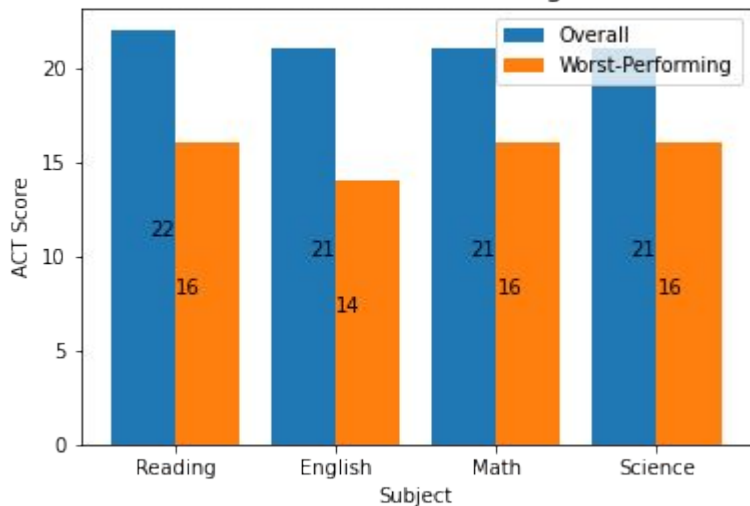


# Performance by Subject: Worst-Performing Averages

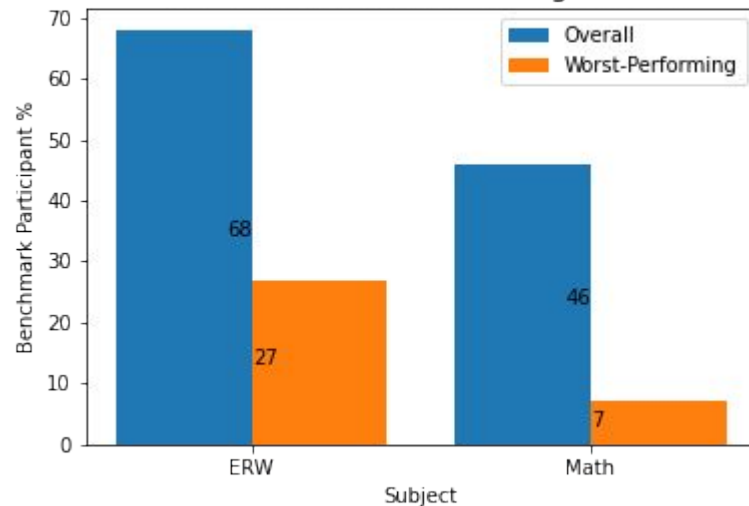


# Performance by Subject: Overall vs. Worst-Performing Averages

Average Score by Subject (ACT):  
Overall vs. Worst-Performing Schools



Average % Benchmark Participants by Subject (SAT):  
Overall vs. Worst-Performing Schools





04

# Conclusion



# Key Takeaways

- The State of California has 52 districts where less than 10% of participants met or exceeded the benchmark score for the ACT and/or SAT. There is a heavy concentration of these districts in the Los Angeles, Fresno and Riverside counties.
- The ACT does not have a subject that can be considered worst-performing, but the SAT Math section is giving participants much difficulty.

# Recommendations

- To start, focus on the districts in the top 3 counties with the most number of worst-performing districts: **Los Angeles, Fresno & Riverside.** *(see slide 13)*
- These counties/districts will require a **higher quality of instruction & delivery style on all subjects** with an **emphasis on Math.**

# Next Steps

- What should be implemented/changed to achieve a higher quality of instruction & delivery style?
- Will all worst-performing districts benefit from the same implementations/changes?

# Questions?



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