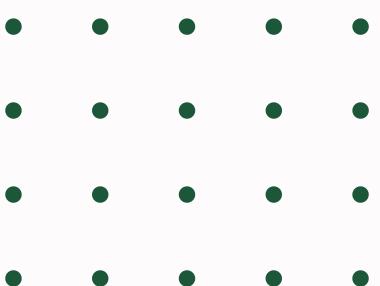




Financial and Performance Analysis

# BAYLESS SCHOOL DISTRICT

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# Meeting Agenda

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Problem Statement

02

Solution Approach

03

Data Selection

04

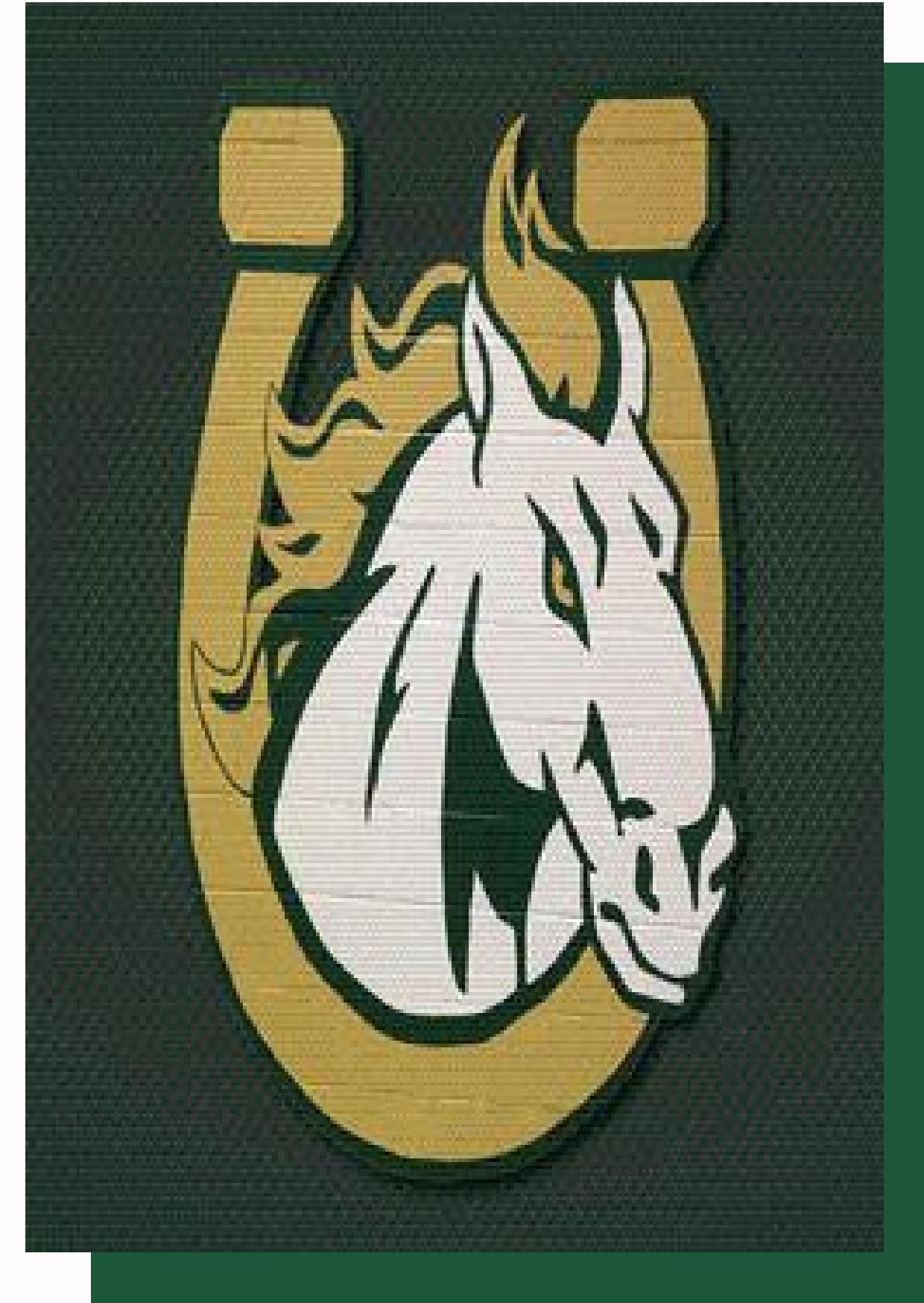
Data Visualization and Analysis

05

Recommendation

06

Summary



# PROBLEM STATEMENT

- Goal:
  - Assess and compare Bayless School District's financial data with other districts of similar size and within their region.
- Objectives:
  - Identify trends in Bayless's financial data over the past 5 years.
  - Determine the best ways to visualize and communicate these trends.
  - Effectively communicate the current financial state to the community.
  - Highlight the exceptional value that a Bayless education provides.



# Solution Approach



- *Financial Reports*
- *Student Performance*



- *Comparative Analysis*
- *Visualization Tools:*
  - *Use Tableau or Python for visualizations*
- *Correlation Analysis*



- *Accuracy and Clarity*



# Data Selection



## Comparison Group

1. Top 10 MO public high schools
2. MO public high schools' Stats Average



## Demographic

1. Student Number
2. Students Who Need Lunch Support
3. Student Diversity Rate
4. English Learner Proportion



## Student Performance

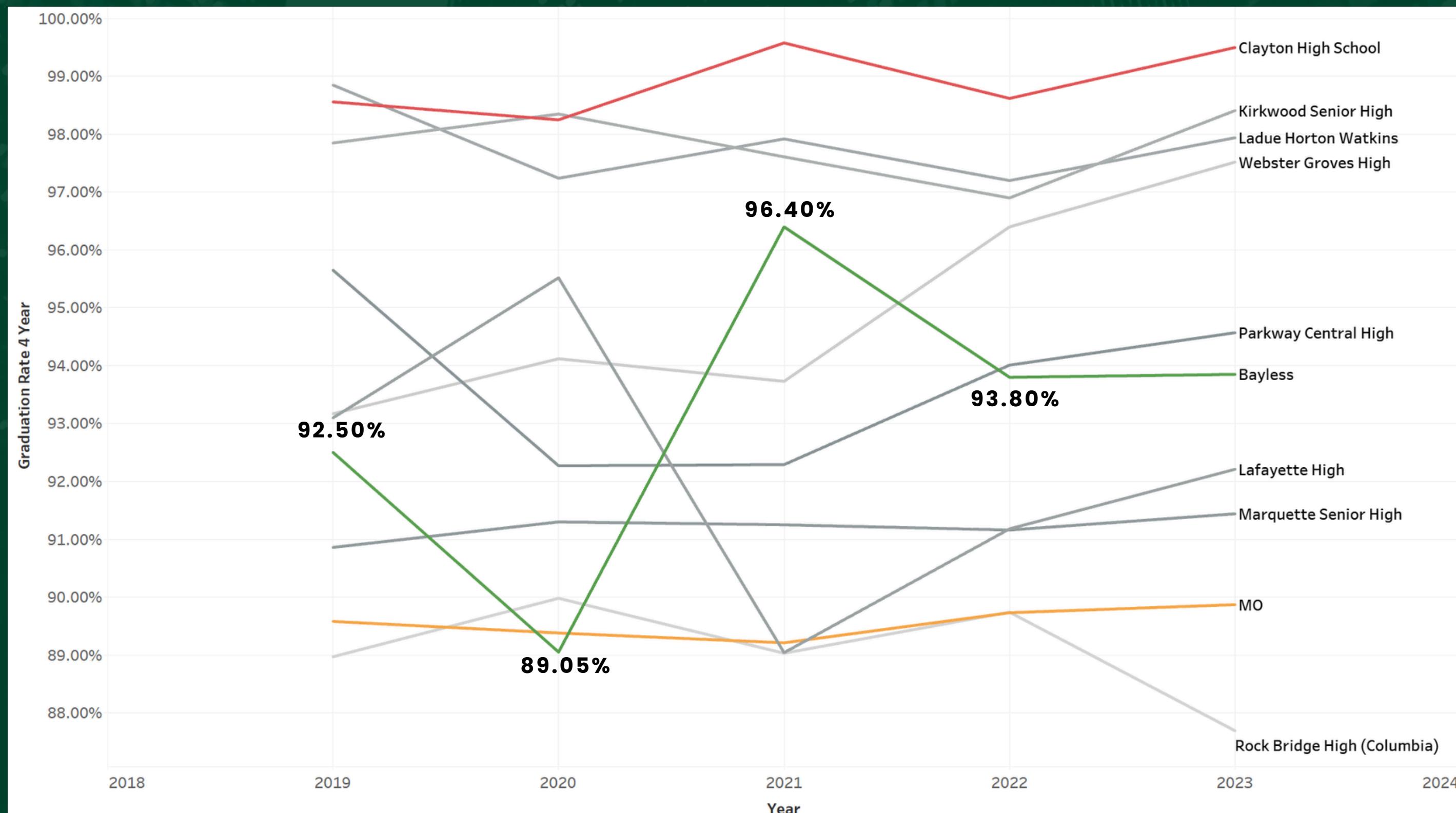
1. Graduation Rate
2. Where Graduates Go
3. ACT Results



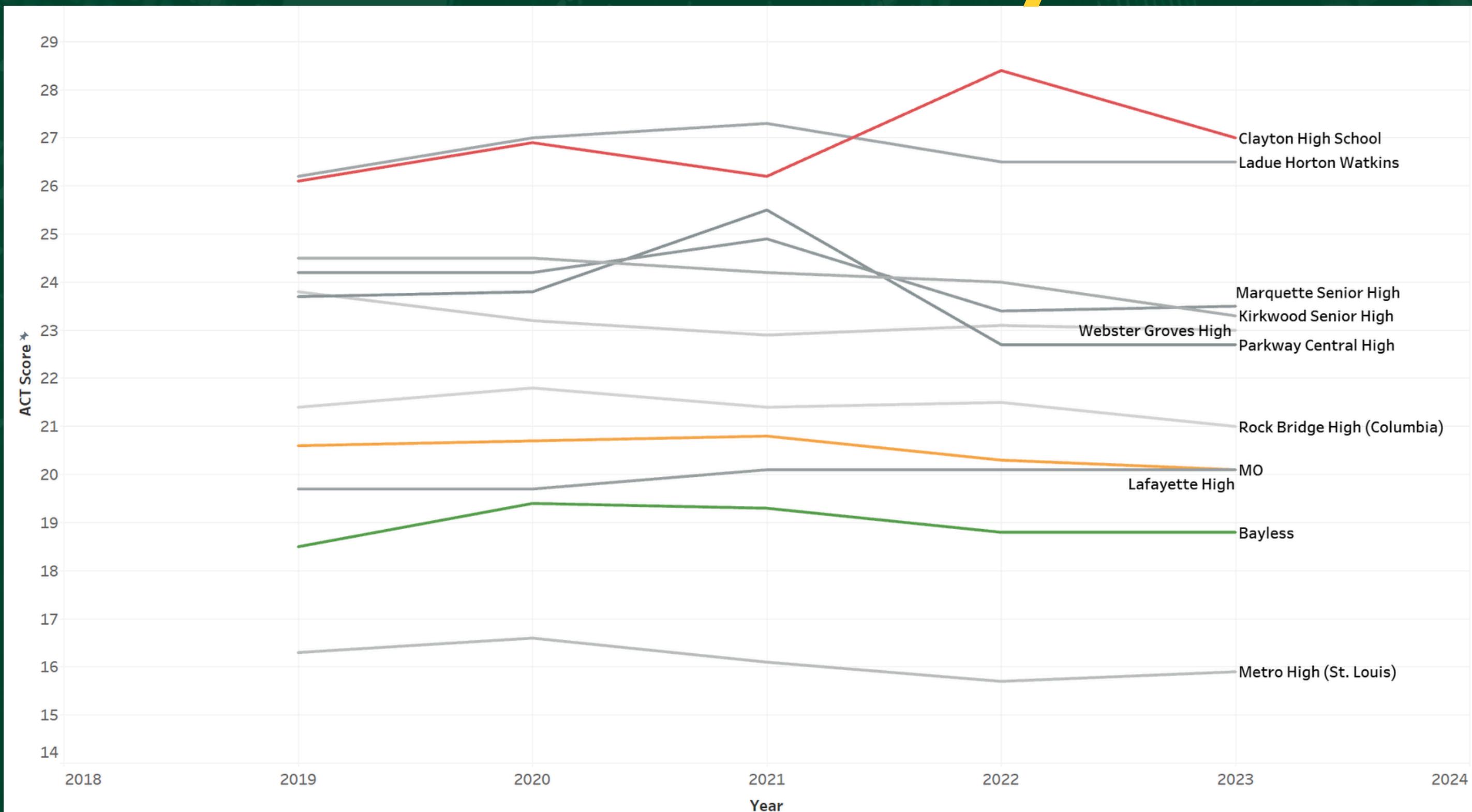
## Financial Data

1. Fund Revenue for Senior High School
2. Instruction Expenditures
3. Salary Expenses

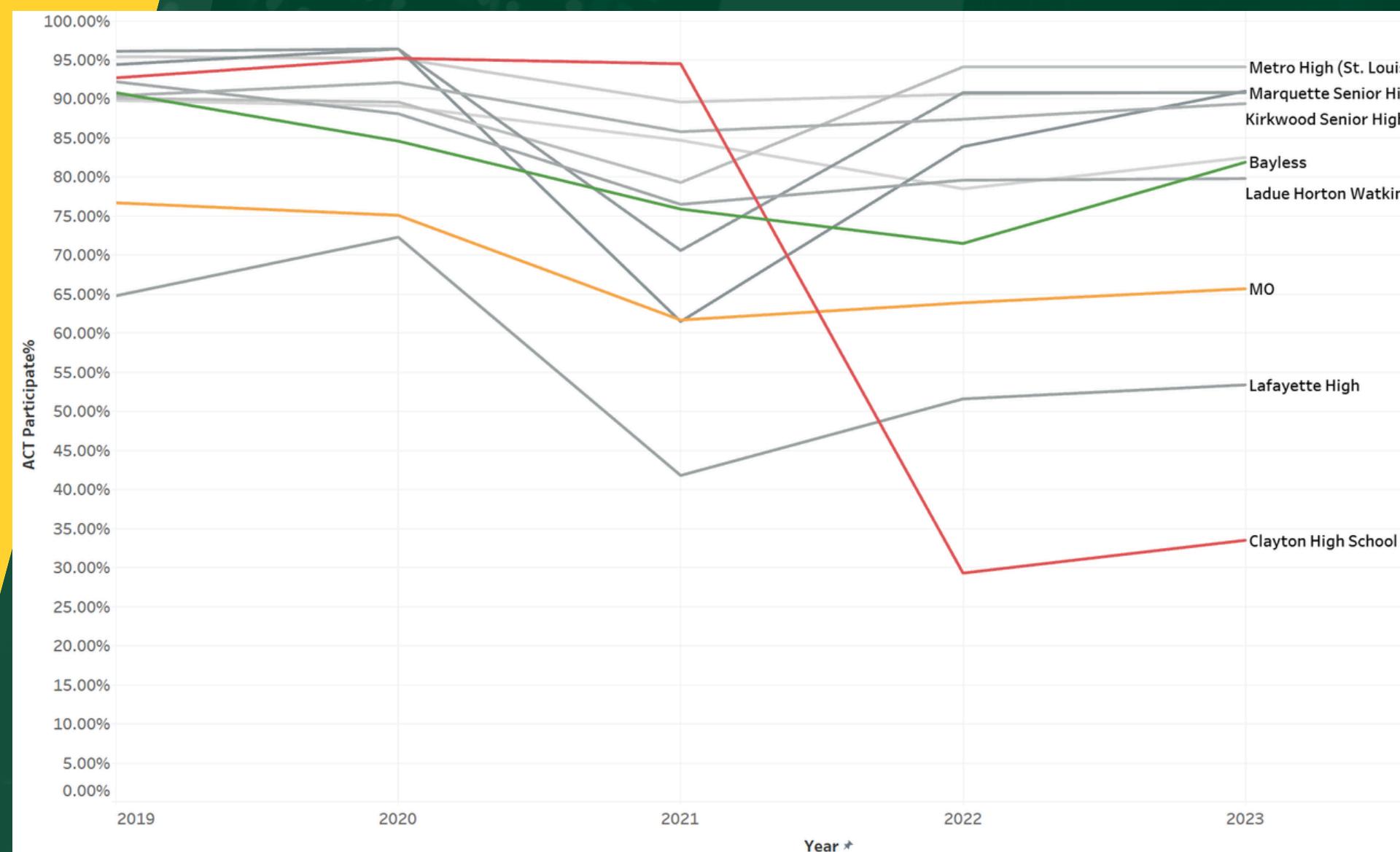
# Graduation Rates Over 5 Years



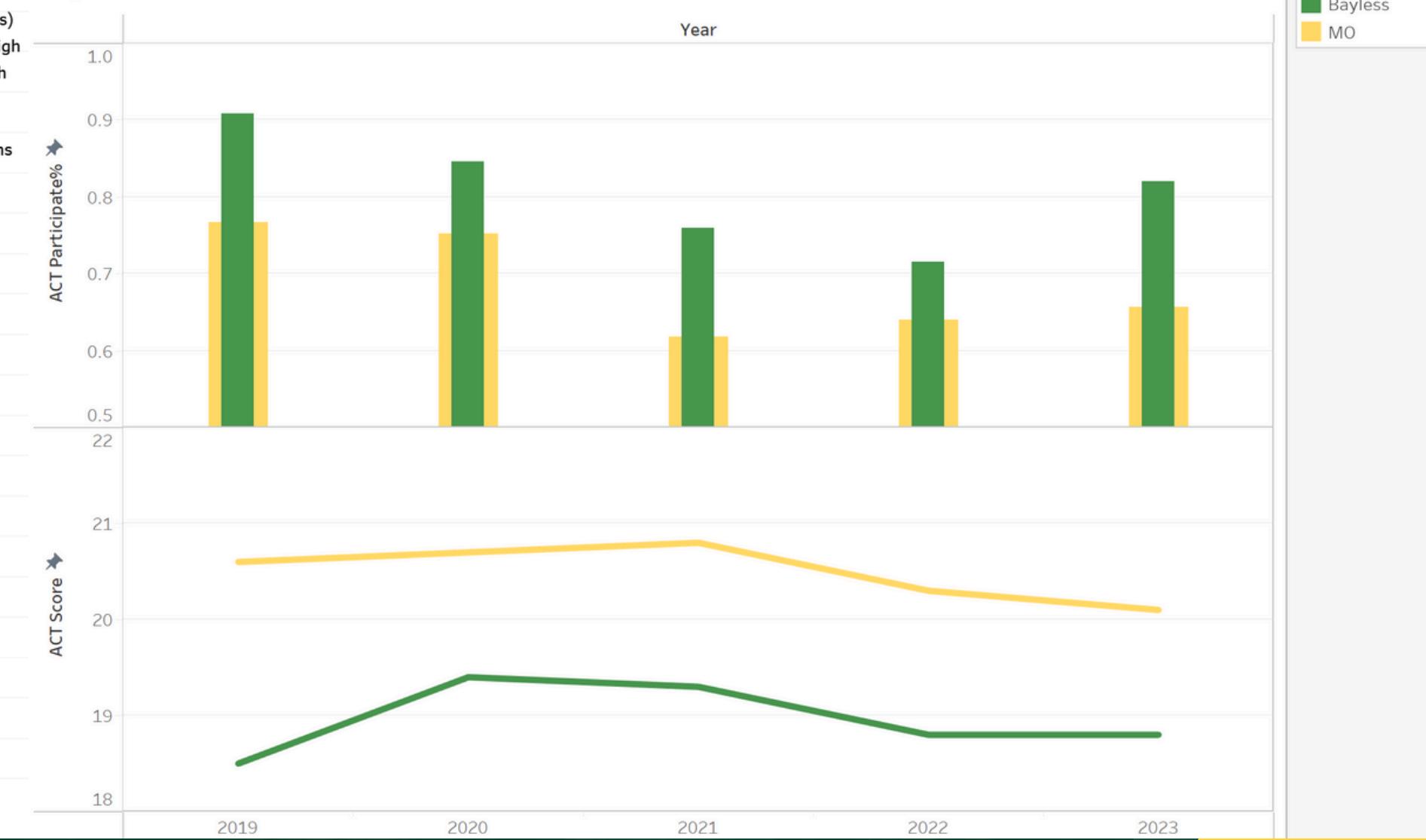
# ACT Scores Over 5 years



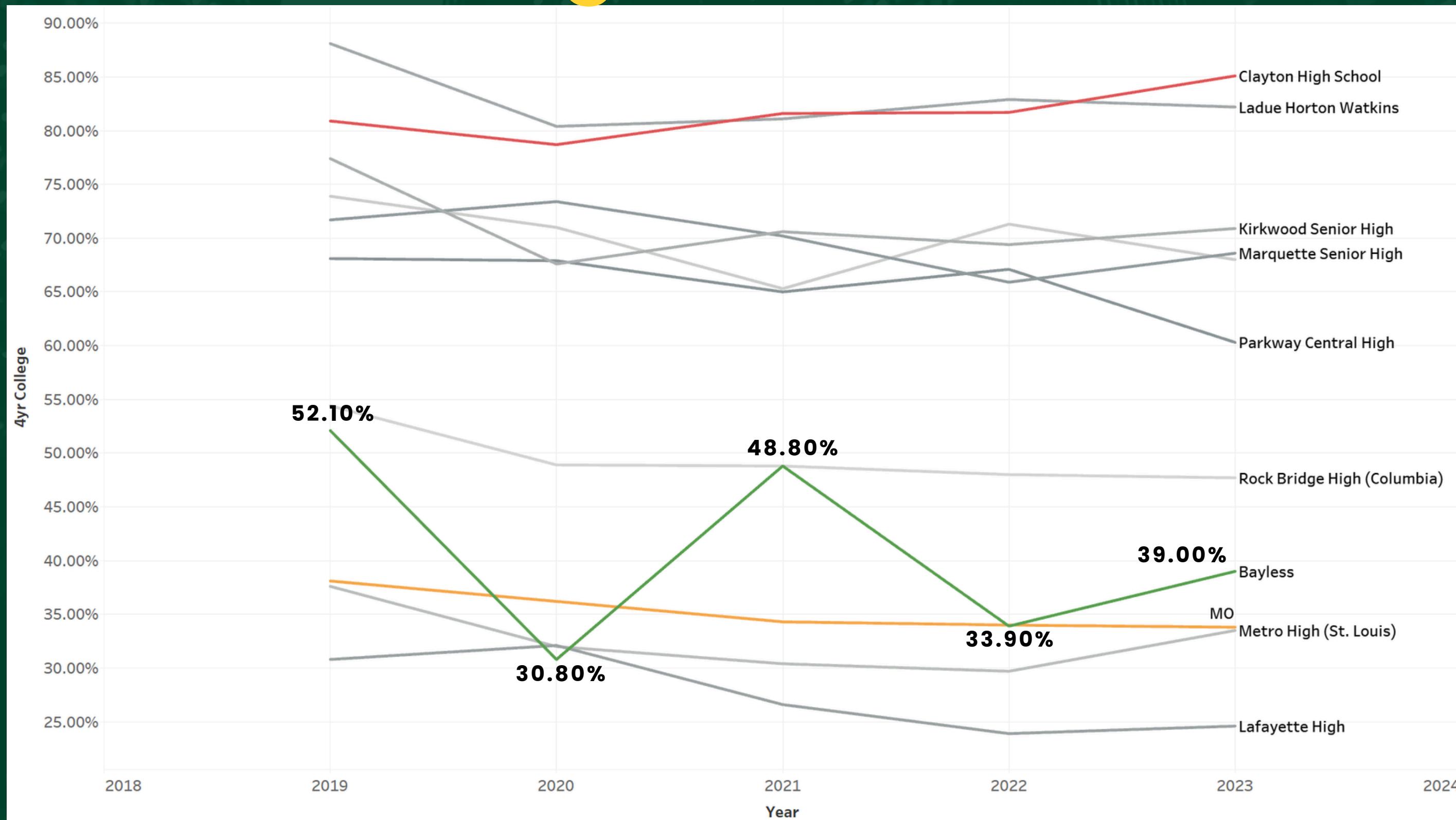
# ACT Participation Rates



Bayless vs MO: ACT Performance



# 4-Year College Attendance Rates



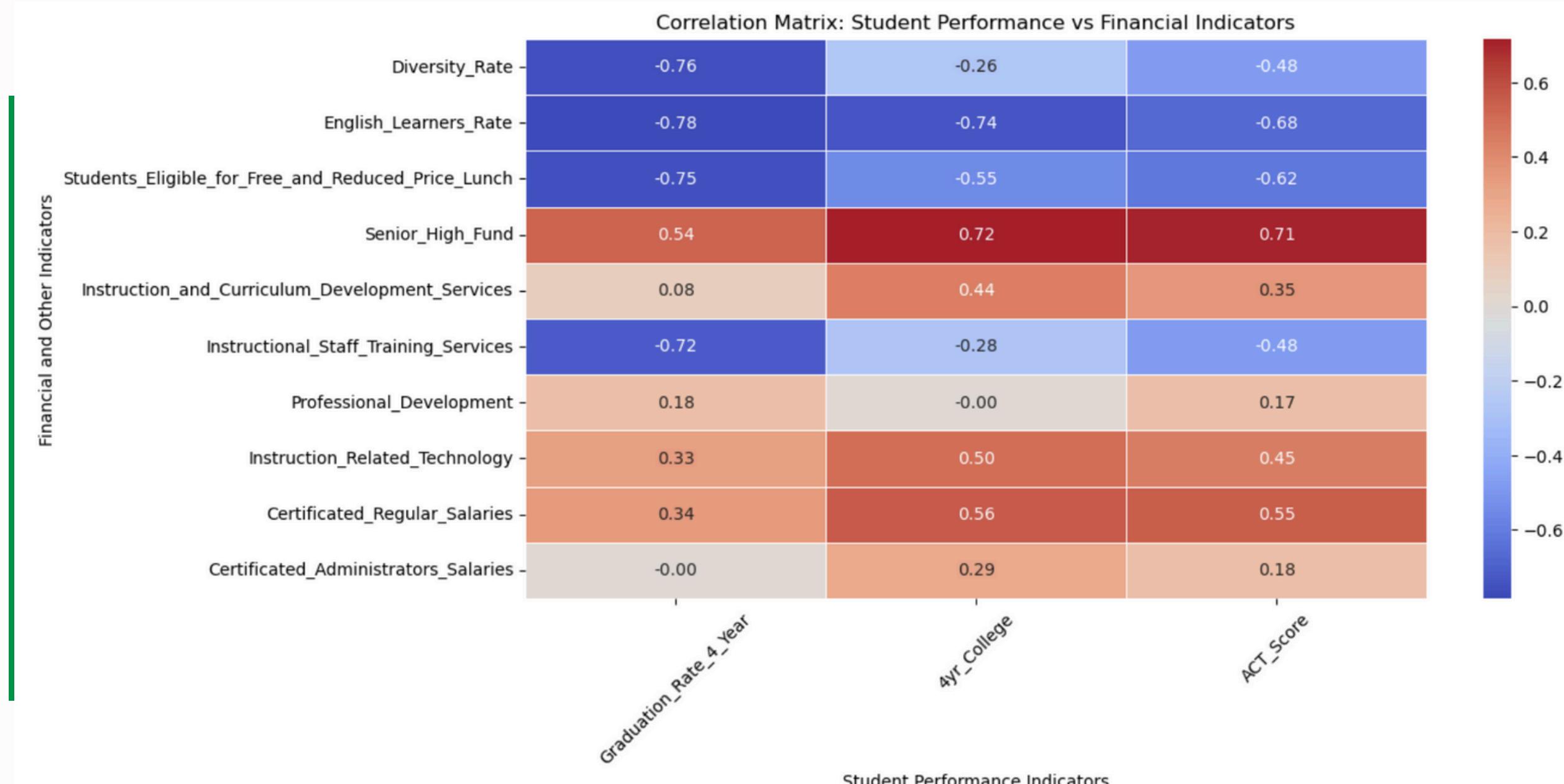
# WHAT AFFECTS PERFORMANCE?

## 01 Financial Investments

- a. Senior High School Fund positively correlates with 4-Year College Attendance and ACT Scores.
- b. Certificated Regular Salaries and Instruction Related Technology moderately positively correlate with performance metrics.
- c. Prioritize financial allocations in areas that positively impact performance, such as senior high school funds, technology, and teacher support.

## 02 Demographic Reasons

Diversity rate, English learner rate, and the proportion of students who need lunch support are strongly negatively correlated with student performance .



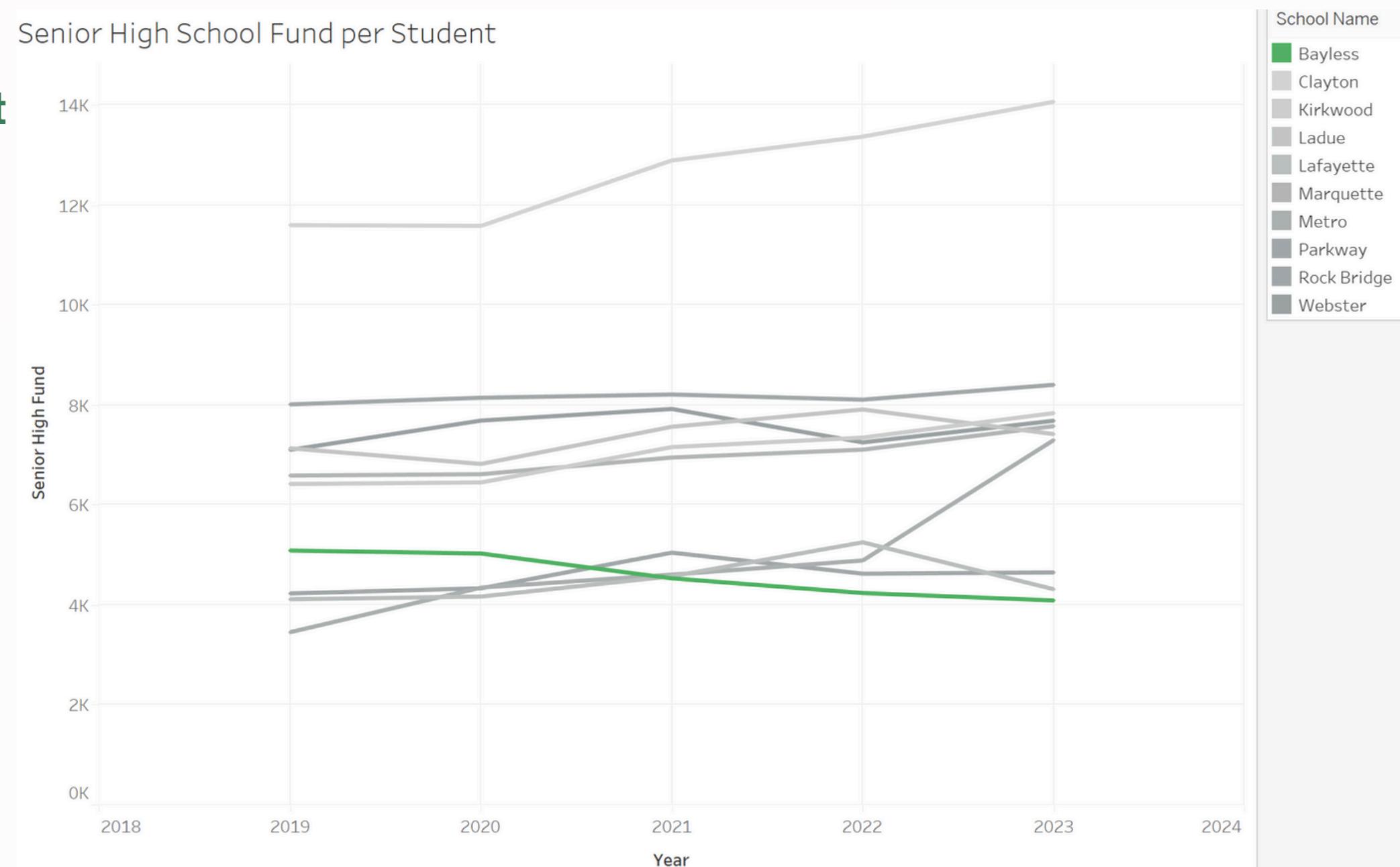
Note: Financial Data Was Divided by Number of Students

# **Financial Status**

# 01 Senior High School Fund per Student

Bayless consistently receives one of the lowest funding per student compared to top regional schools.

Also, Bayless's funding has slightly decreased year by year while others are having increasing funds.

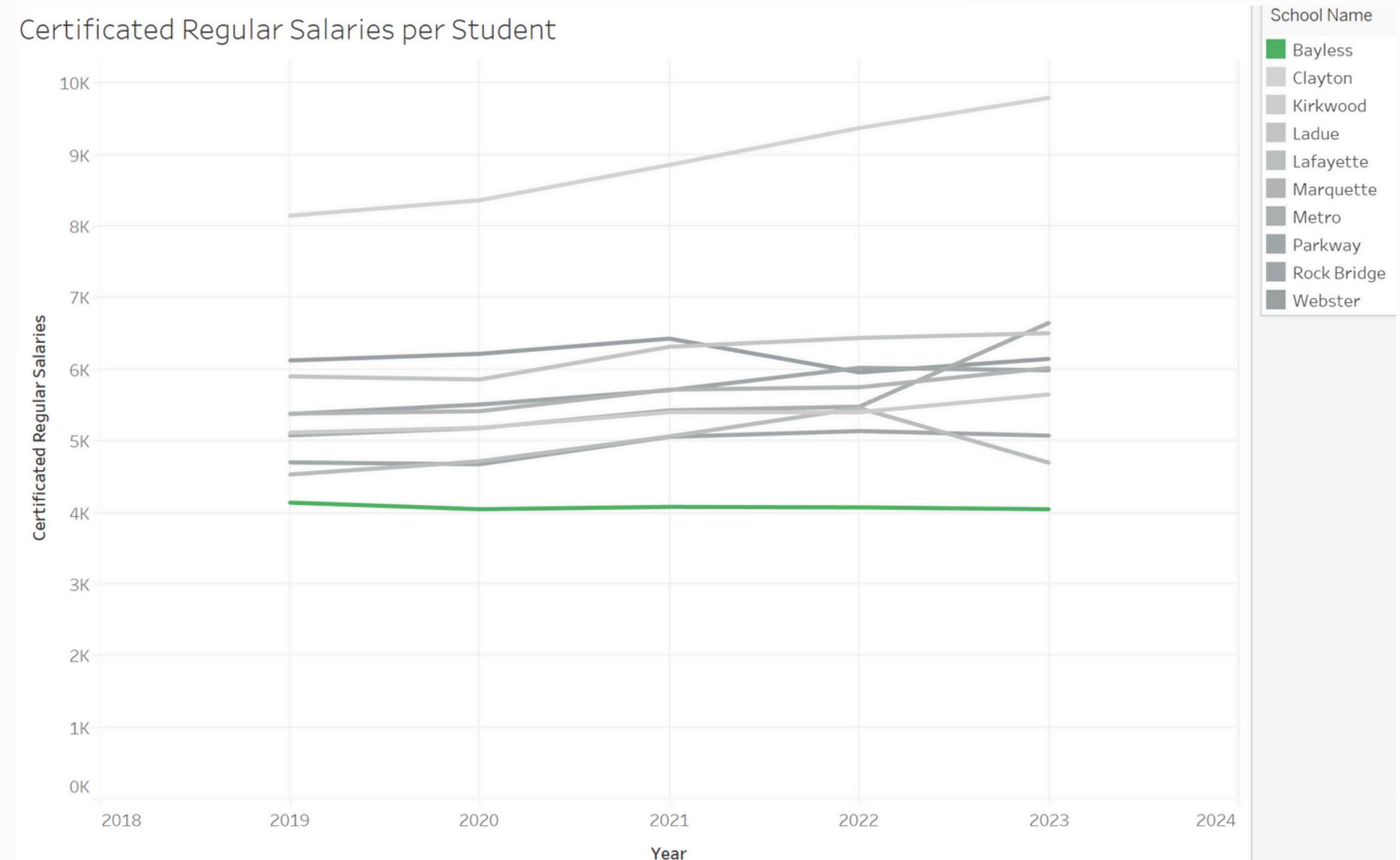


# Financial Status

## 02 Certificated Regular Salaries

Instead of calculating teacher salaries per teacher, calculating teacher salaries per student provides a clearer picture of how financial resources are directly allocated to support student needs, emphasizing a student-centric approach to education. This helps identify disparities in resource allocation, ensuring equity and adequacy in teaching support across different schools or districts.

As the graph shows, Bayless has the lowest teacher salary per student, so it needs more budget to increase teachers' salaries or hire more teachers.

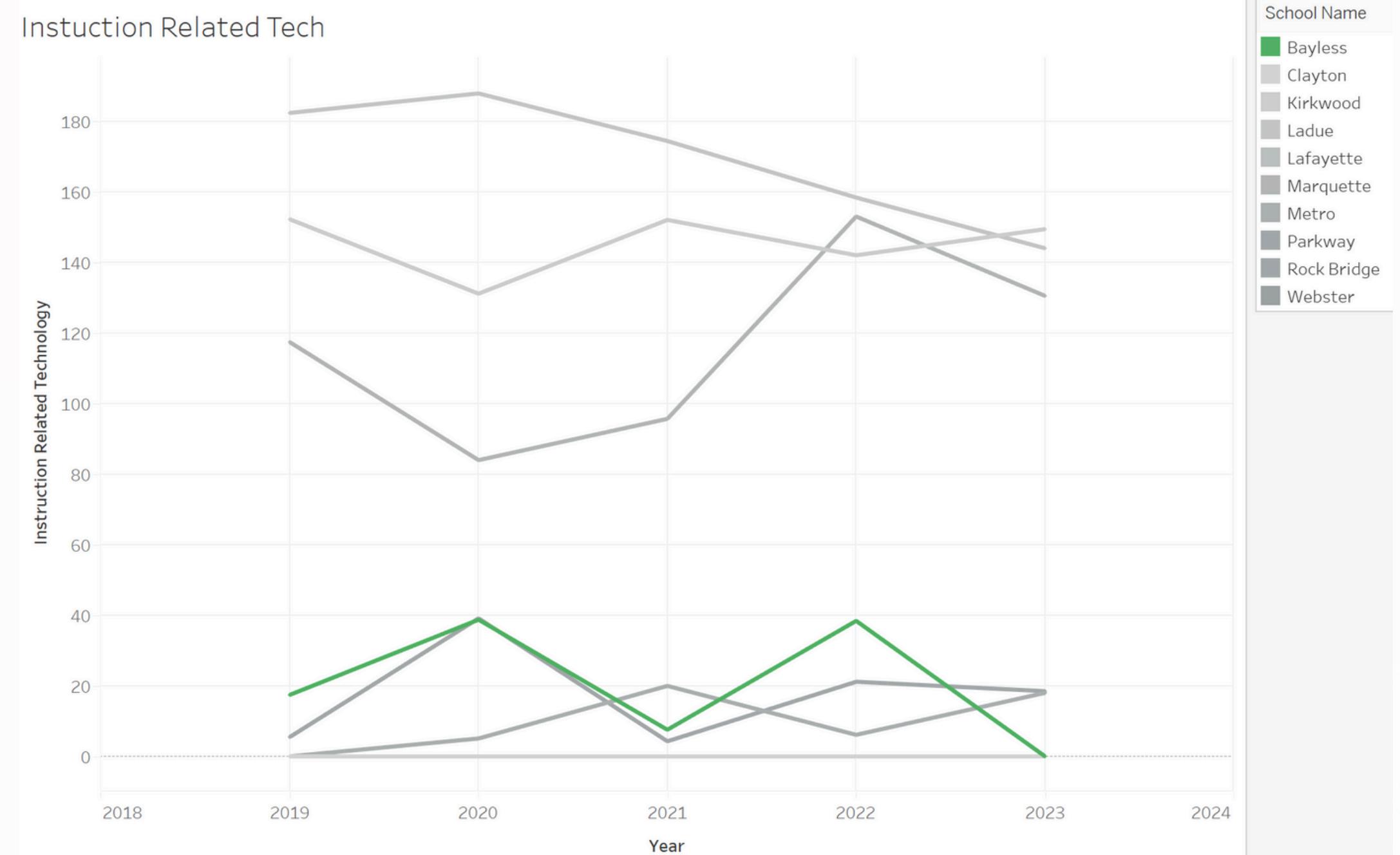


# Financial Status

## 03 Instruction Related Technology

Bayless shows fluctuations in technology spending, with peaks in 2020 and 2022. In 2023, the expense was zero.

The overall spending is lower compared to most other schools.



# Demographic Distribution

## 01 Diversity Rate

The diversity rate is the number of non-white students divided by the total number of students.

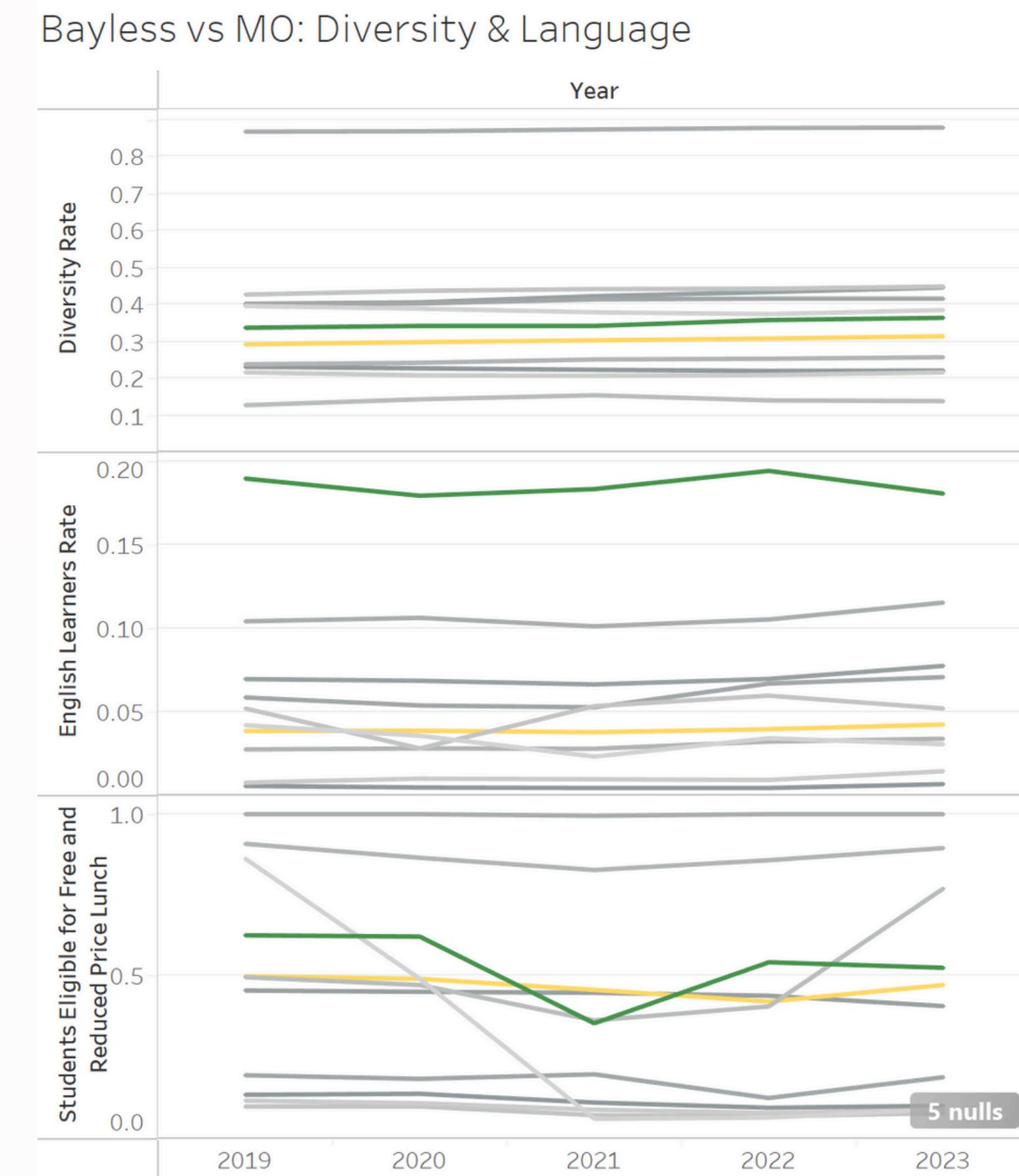
Bayless' diversity rate is a little higher than average.

## 02 English Learner Rate

Bayless' English learner rate is significantly higher than other schools.

## 03 Students Eligible for Lunch Aids

Students eligible for free and reduced-price lunches might need additional economic support, and Bayless students have more needs than other schools.



# Summary



## 01 Higher than MO's Avg

- Graduation rate
- 4yr college attendance
- “Poverty rate”



## 02 Current Predicament

- Low ACT scores
- Unsatisfactory graduation rate and 4yr college attendance



## 03 Lack of Funds

- Low senior high school funds
- Low expenditures per student
- Low regular salaries per student



## 04 Performance Related Factors

- Largely positive to total funds
- Relatively positive to salaries
- Relatively positive to IR technology
- Largely negative to “poverty rate”

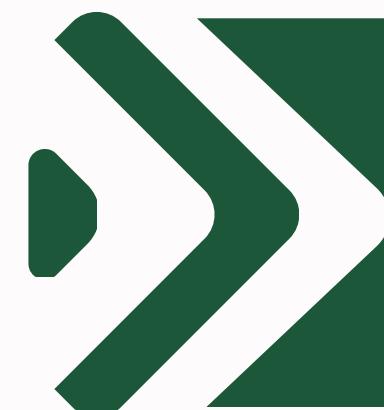
### Our Focus

- Collecting funds and modify expenditures
- Developing teaching like ACT courses



# Further Steps

## Structural modification



- Hire more teachers and increase salaries
- Rise expenditures on instruction related technology

## Innovate projects

- Expand school time: take after school time to hold optional courses/school activities
- Hold more sport games; Hold community activities; Charge proper fees from participants



## Regenerate balance



- Set poverty funds: students who are in penury can apply for poverty assistance to cover any school fees like lunch meals. The funds can be collected from the society and remaining fund balance.