STATE OF THE DISTRICT

with Dr. Shepherd

VISD

Wednesday, April 12, 2023

OFFICE OF INNOVATION

CHOICE Schools

VICTORIA PUBLIC SCHOOLS
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Smith STEM ACADEMY

Shields ELEMENTARY

REAL WORLD PROBLEM STATEMENT

The city of Victoria has contracted your engineering company to build them a bridge to cross over a large river to a neighboring city. It is up to you to determine what type of bridge would have the strength for the task and stay within budget.

DRIVING QUESTION

How can you and your partner design and build a bridge that stays within a $70,000 budget; that you can successfully drive your sphero across?

Imagine & Plan

Build a bridge that can support the Sphero and stay within budget.

CONSTRAINTS:

1. Bridge can only be constructed out of the provided materials
2. May not be held or supported by you
3. Must span the **the length of the river**
4. Must be strong enough to support **the weight of the Sphero and be stable enough for the Sphero to cross the bridge** at least 3 times
5. Your materials cannot exceed a maximum budget of **$70,000**

1. How might you use the materials to solve the problem?
2. How might you consider tension and compression in the design of your bridge?
3. How might you design your bridge to support the Sphero?

Create-Test-Improve

Build a bridge that can support the weight of the Sphero and stay within budget.

CONSTRAINTS:

1. Bridge can only be constructed out of the provided materials
2. May not be held or supported by you
3. Must span the **the length of the river**
4. Must be strong enough to support **the weight of the Sphero and be stable enough for the Sphero to cross the bridge** at least 3 times
5. Your materials cannot exceed a maximum budget of **$70,000**

With your bridge complete, did you stay in budget?

Did you succeed? Did your bridge hold the weight of the Sphero? Were you able to drive the Sphero across the bridge?

Did you fail? Improve and re-build!

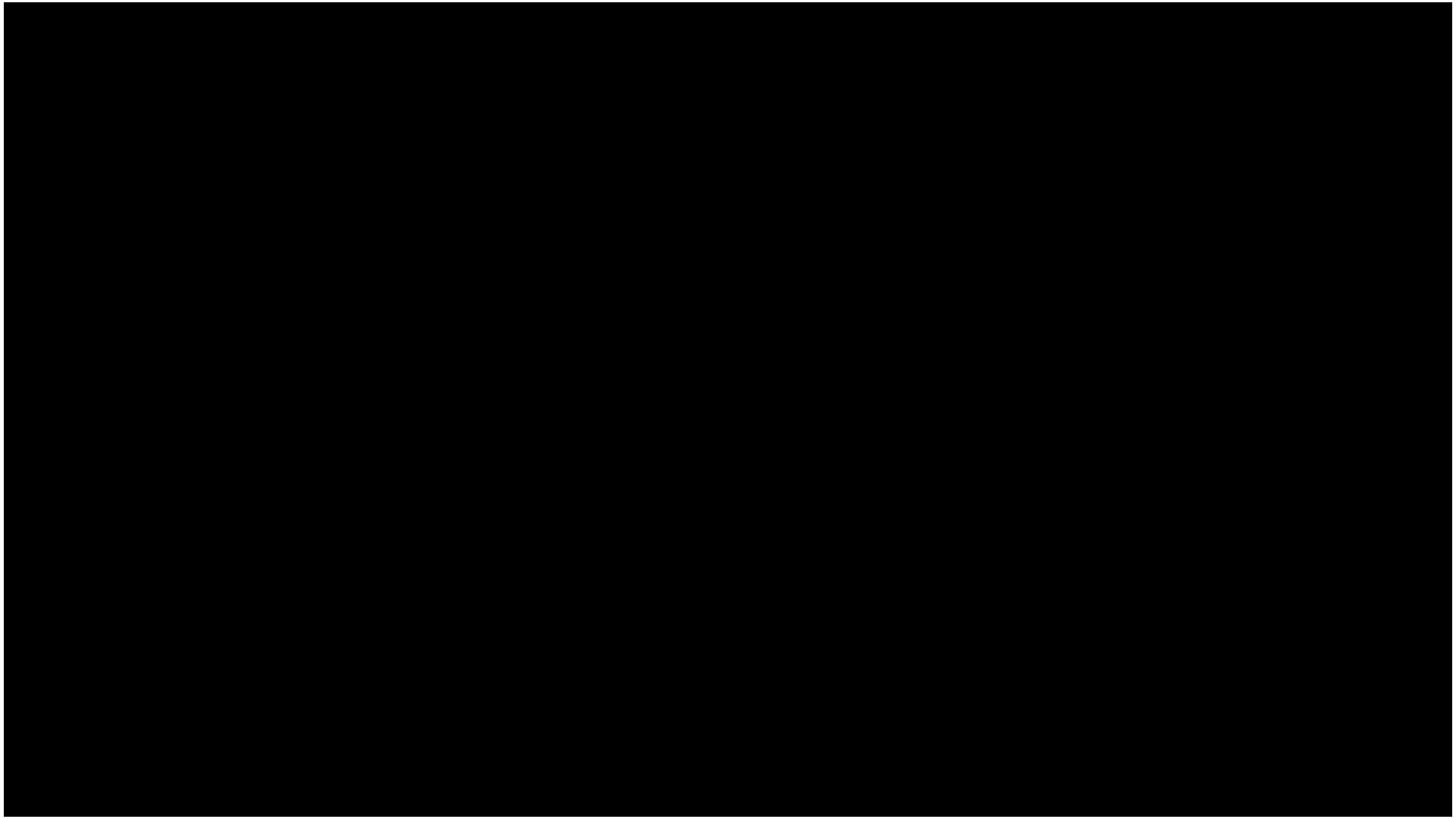
Reflect

Build a bridge that can support the required weight and stay within budget.

Compare your design with the other teams. What are some similarities? Differences?

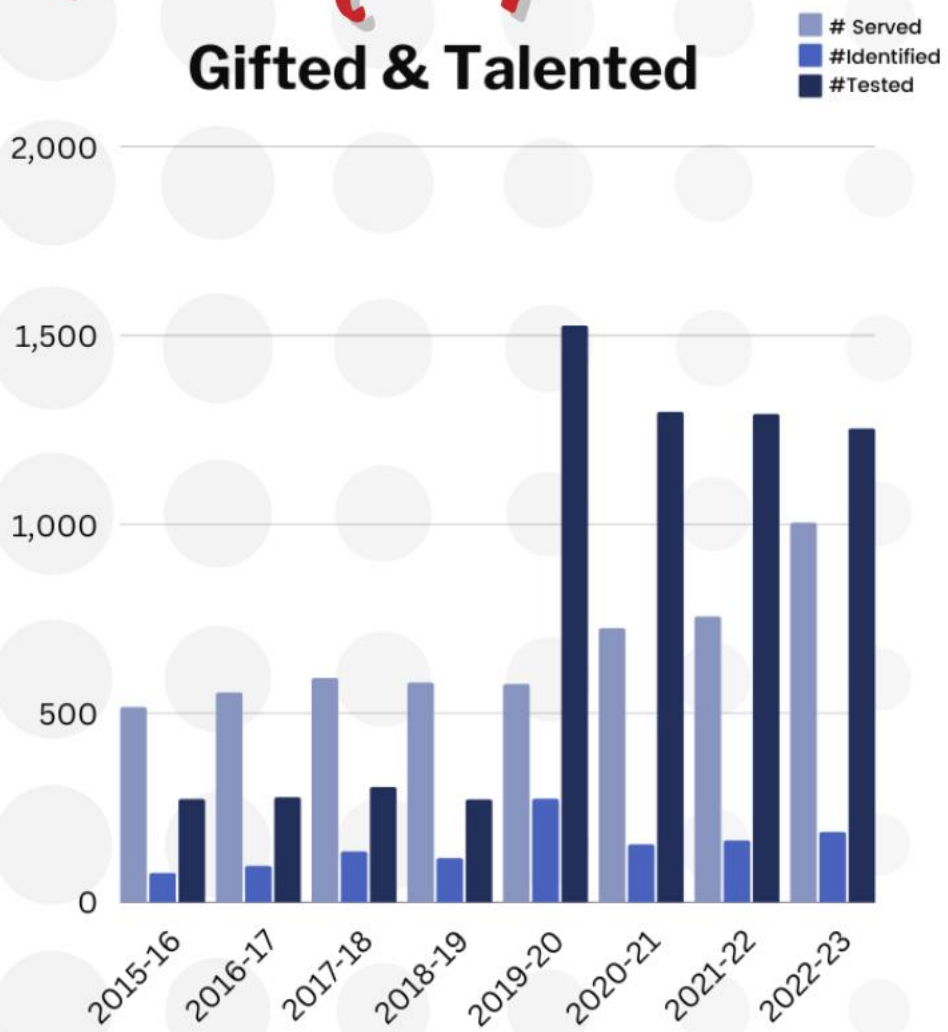
How did you use your materials to create your bridge?

What challenge did you face in this mission? How did you overcome failure?



Student Achievement

94.7%



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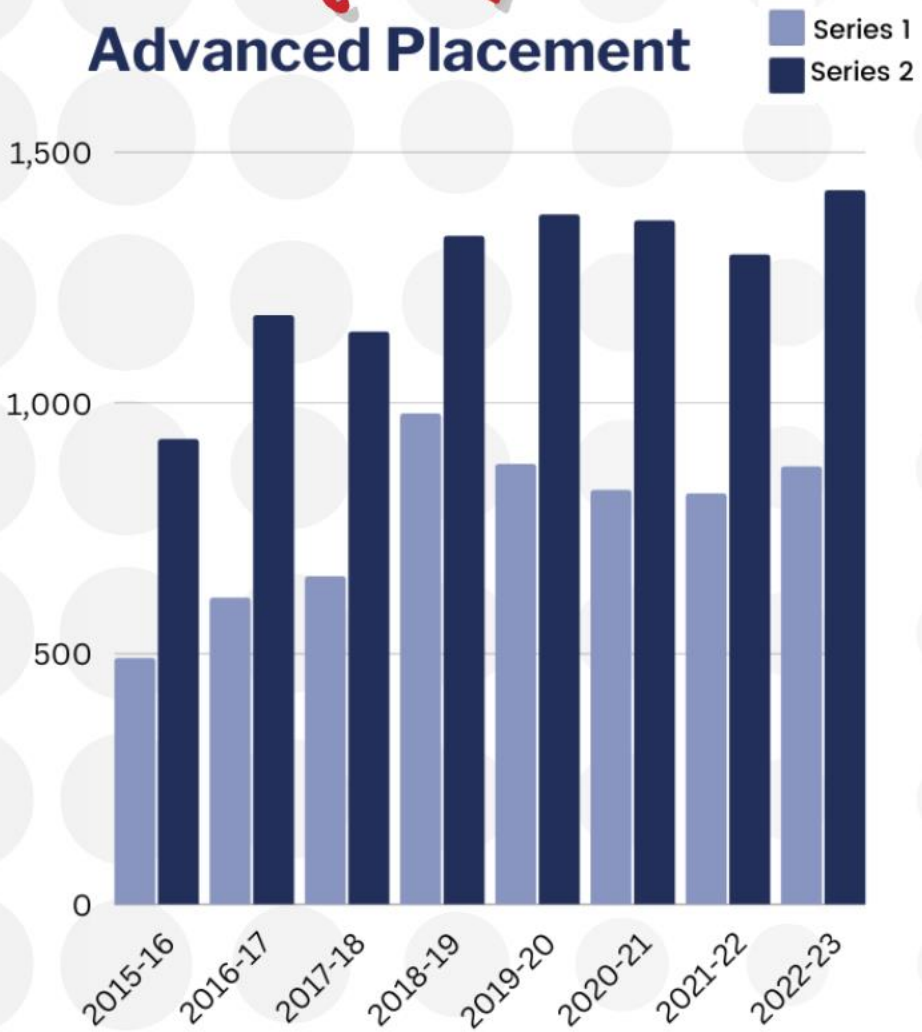
Student Achievement

61.9%



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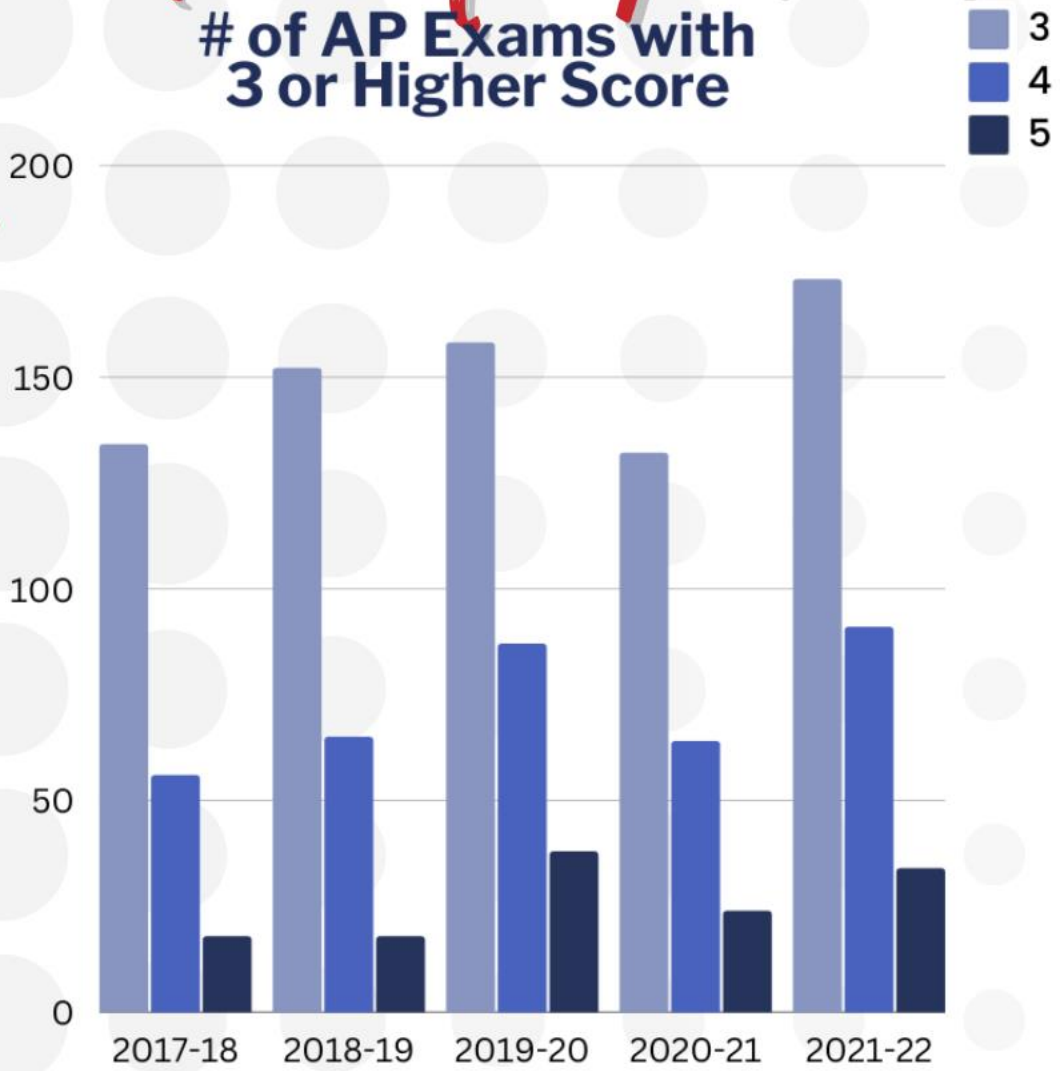
Student Achievement

Pre-Advanced Placement

Student Achievement

of AP Exams with 3 or Higher Score



43.2%

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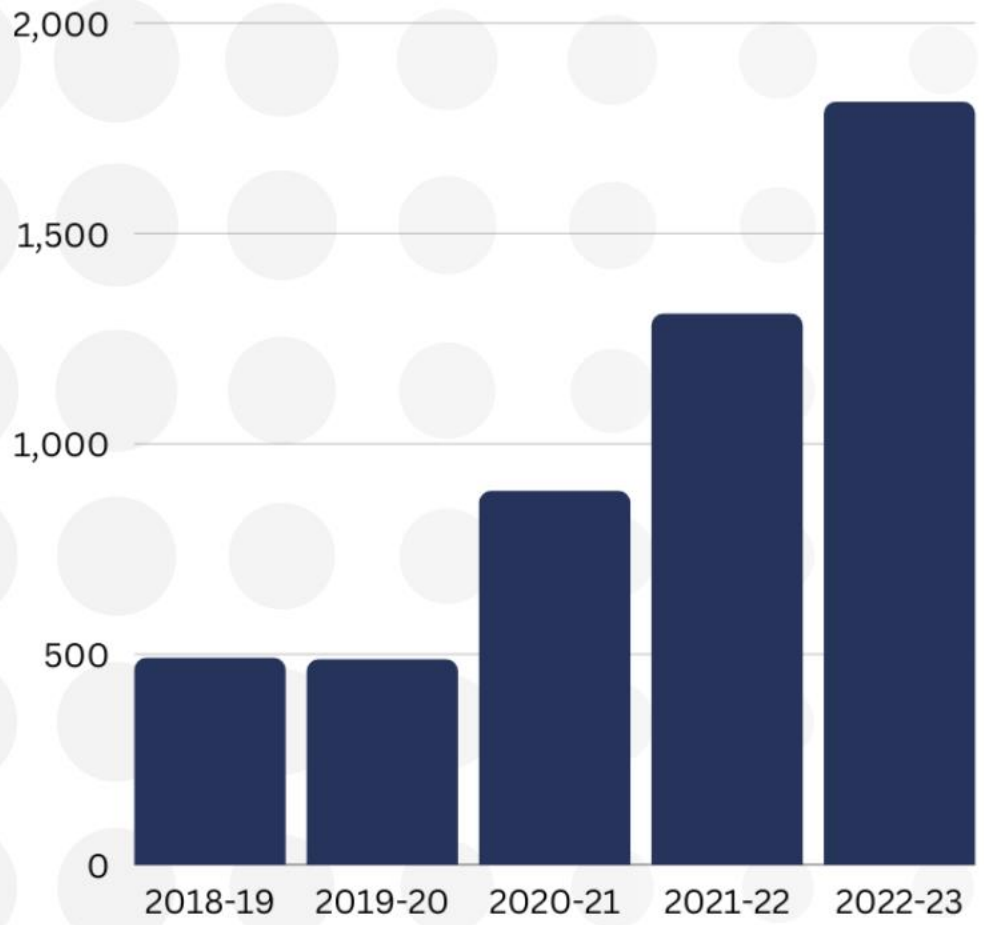
Student Achievement

AVID Program Enrollment

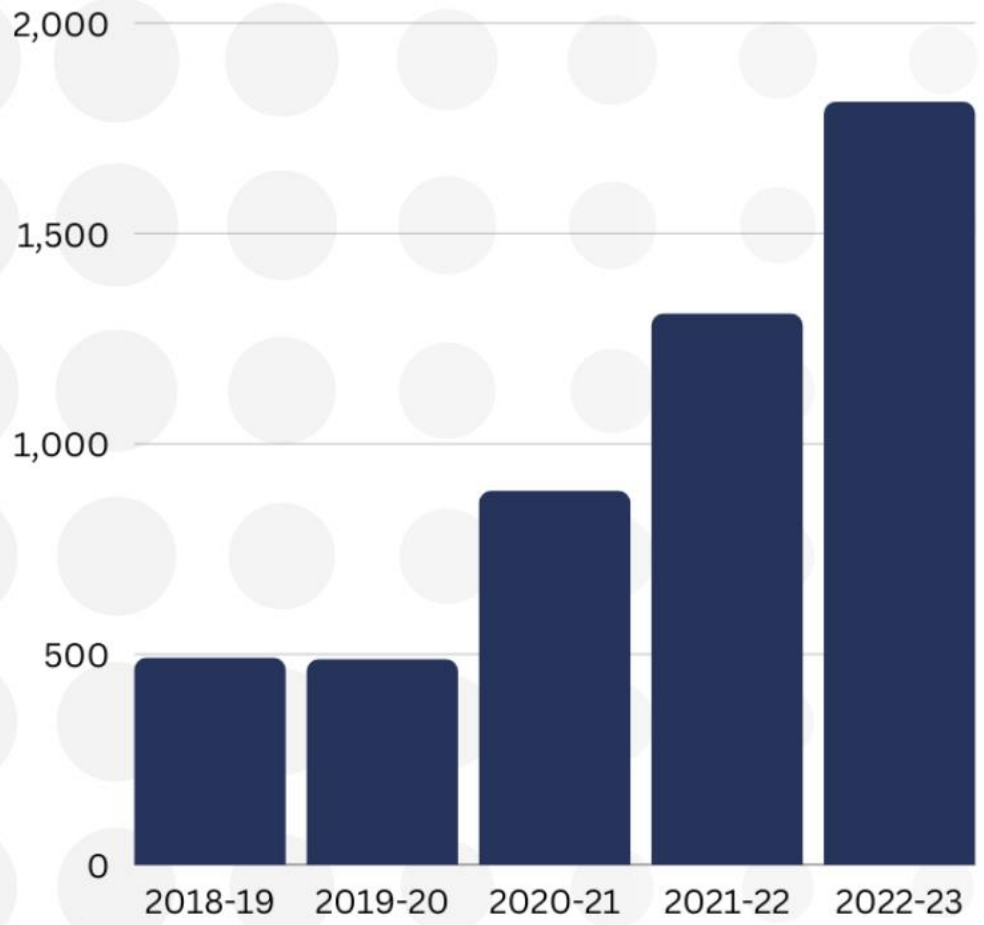
269%



Student Achievement

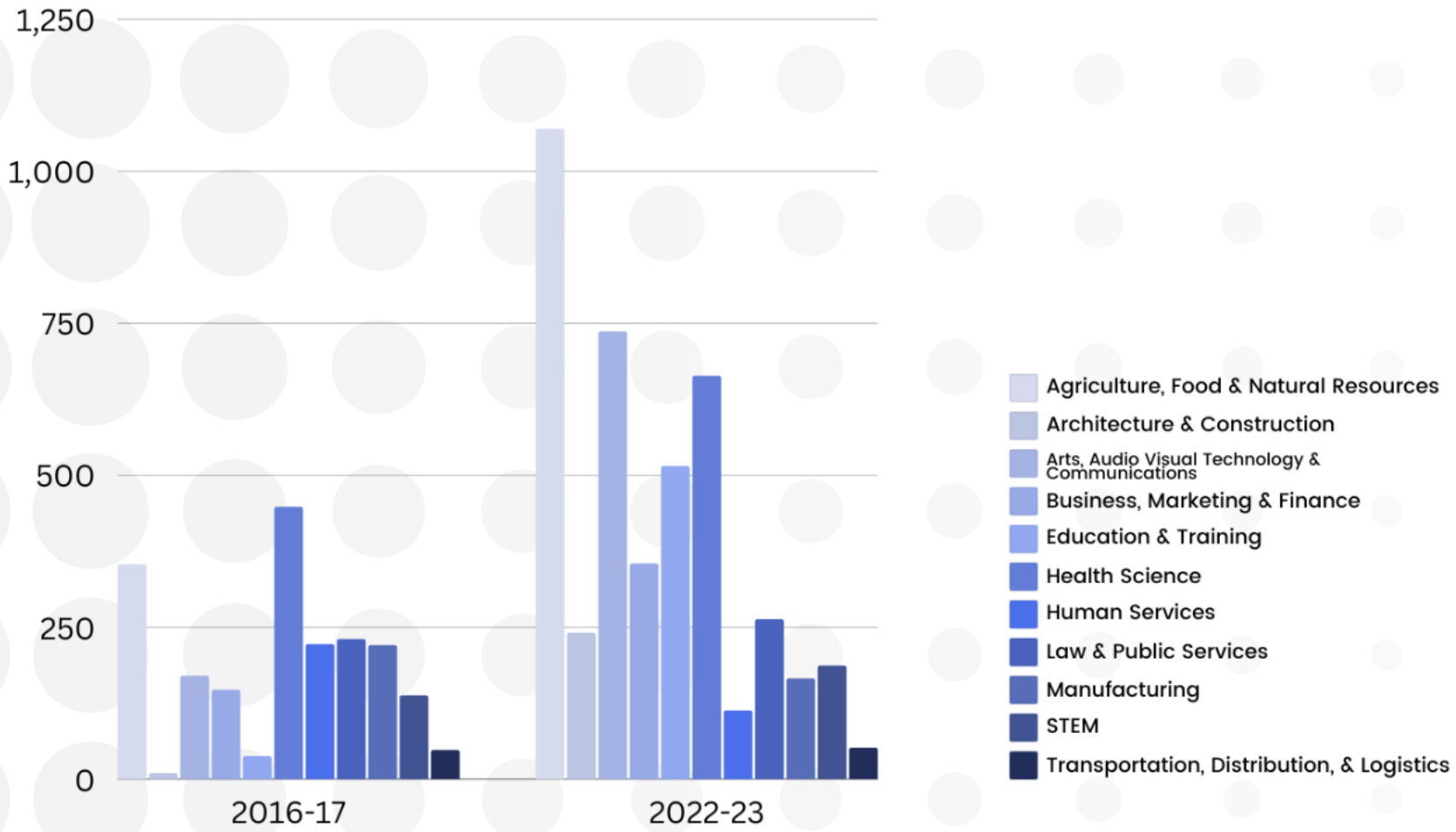
AVID Program Enrollment

269%



Student Achievement

CTE Course Enrollment by Career Cluster



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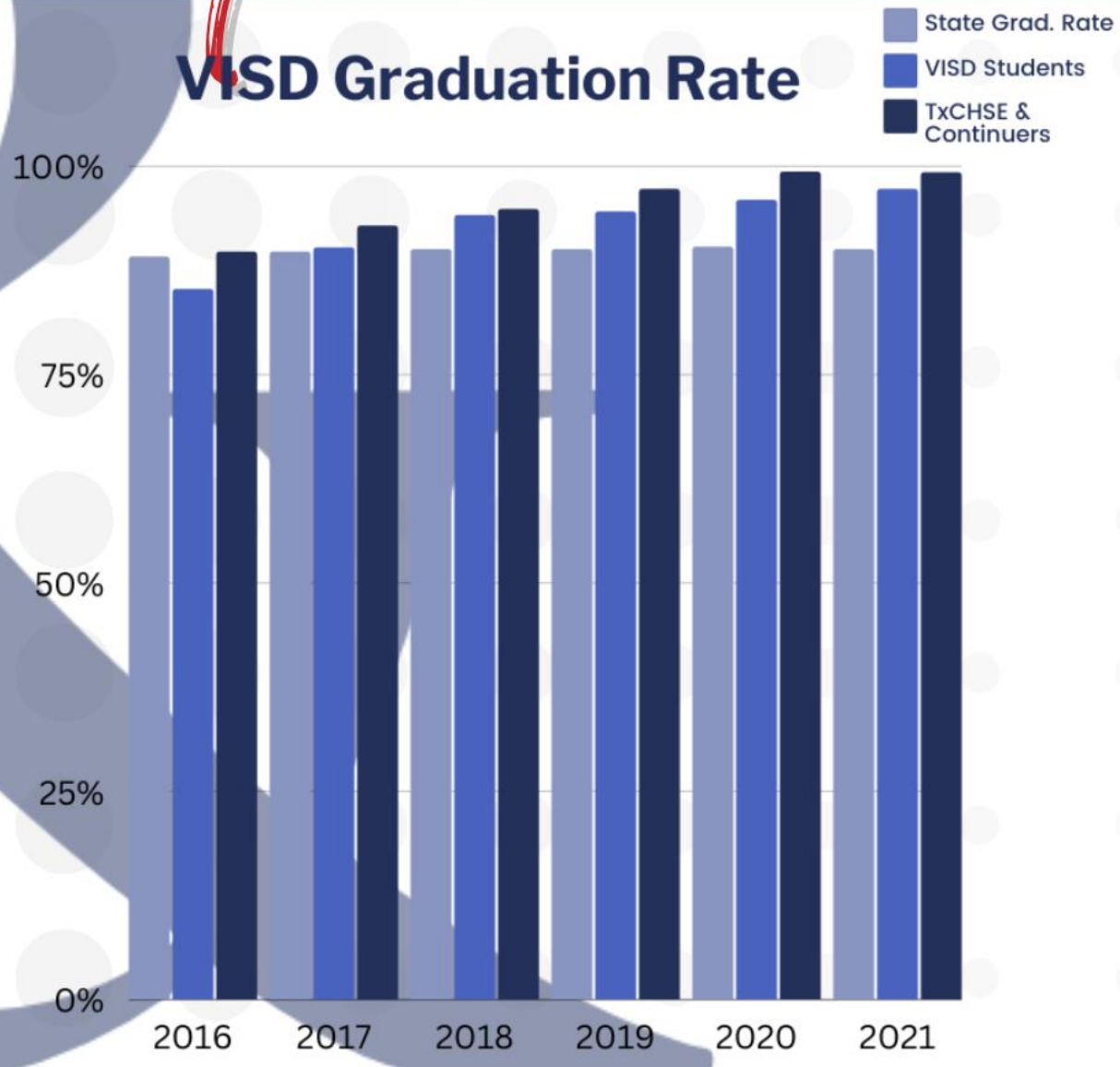
Graduation

VISD Graduation Rate



VISD P-TECH

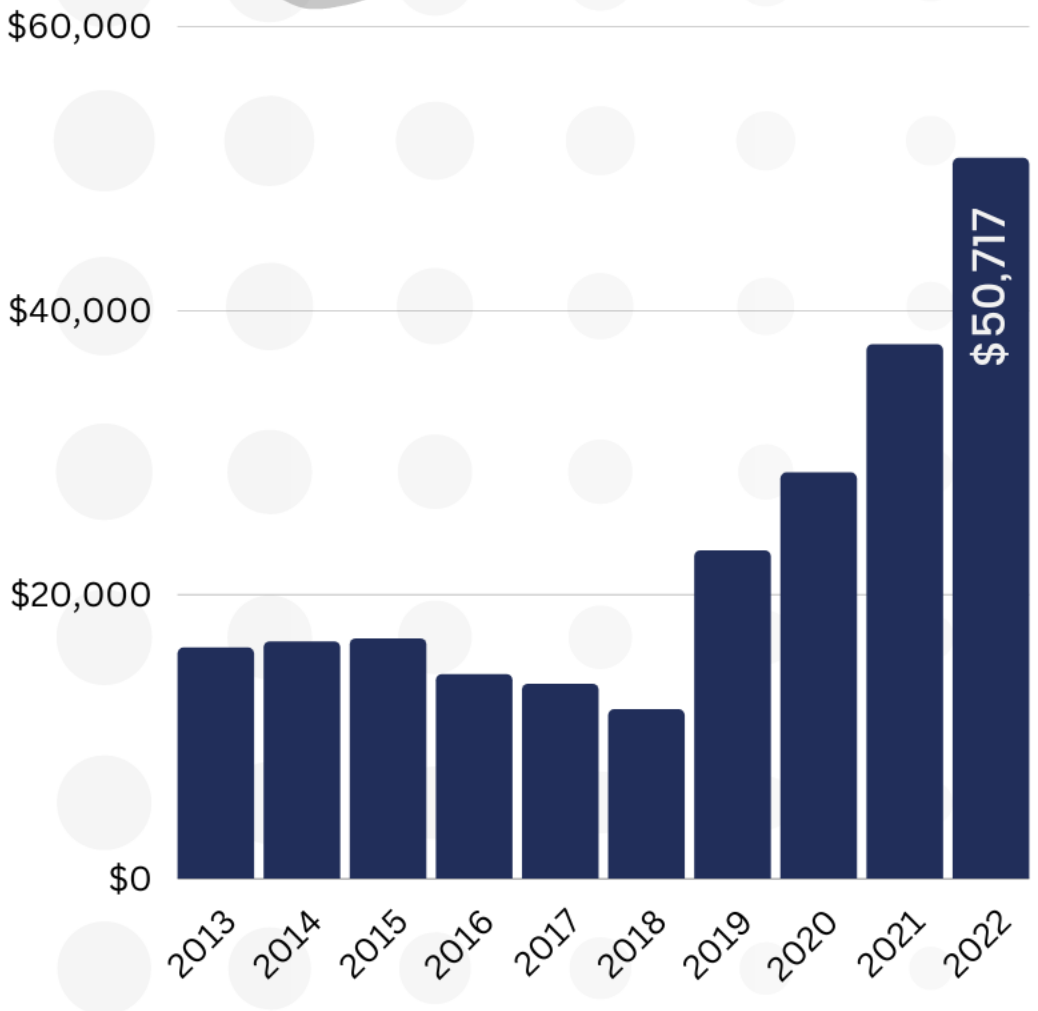
ACHIEVING EXCELLENCE FOR ALL!

- 213 college hours completed, to date
- 45 college hours offered per P-TECH pathway
- Over $470,000 secured for pathway development

Finance in VISD

ACHIEVING EXCELLENCE FOR ALL!

VISD Fund Balance



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GFOA
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Fund Balance Uses

SCHOOL SAFETY IMPROVEMENTS

Replacing oldest buses out of the fleet

Repairing roofs

Updating antiquated phone system

Priority repairs of aging facilities

A Balance of Needs

36 School Buses that have exceeded their useful lifespanof 15 years

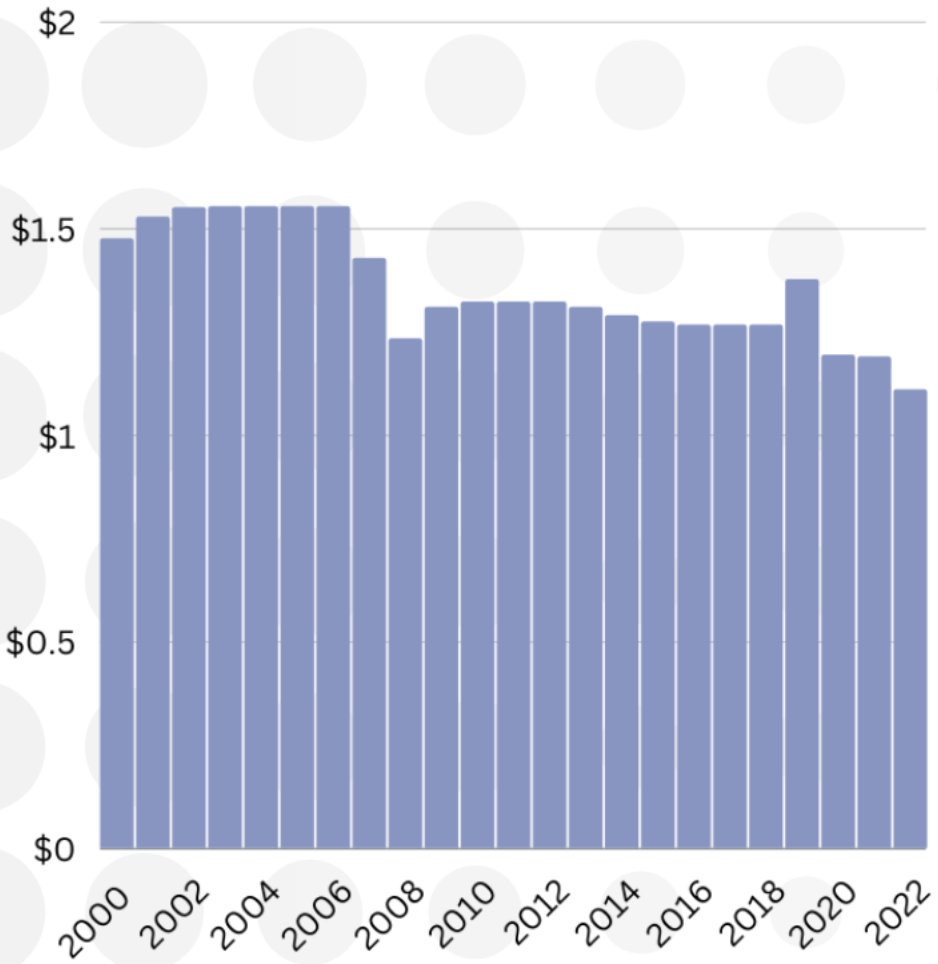
Updating antiquated phone system

11 campuses with roofs that remain aged out & in disrepair

$10 million in HVAC systems that have exceeded their lifespan

Finance in VISD

VISD Total Tax Rate: 2000-2022



LOWEST IN OVER 30 YEARS!

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Thank you!

Sign up and stay in the know!

SCHOOL Matters

WEEKLY E-NEWSLETTER

SCAN ME

VISD.NET

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