DALLAS INDEPENDENT SCHOOL DISTRICT | Teaching and Learning

# Customizing MAP Reporting for a Large District

February 2022

Introduction

Warm Welcome

Dallas ISD Overview

# SESSION AGENDA

Optimistic Closing

Automating Custom Reports

Dallas ISD's MAP Journey

# Introductions

Miranda Madden
Director
Multi-Tiered Systems of Support

Marelenise Phillips-Roberts
Coordinator
Multi-Tiered Systems of Support

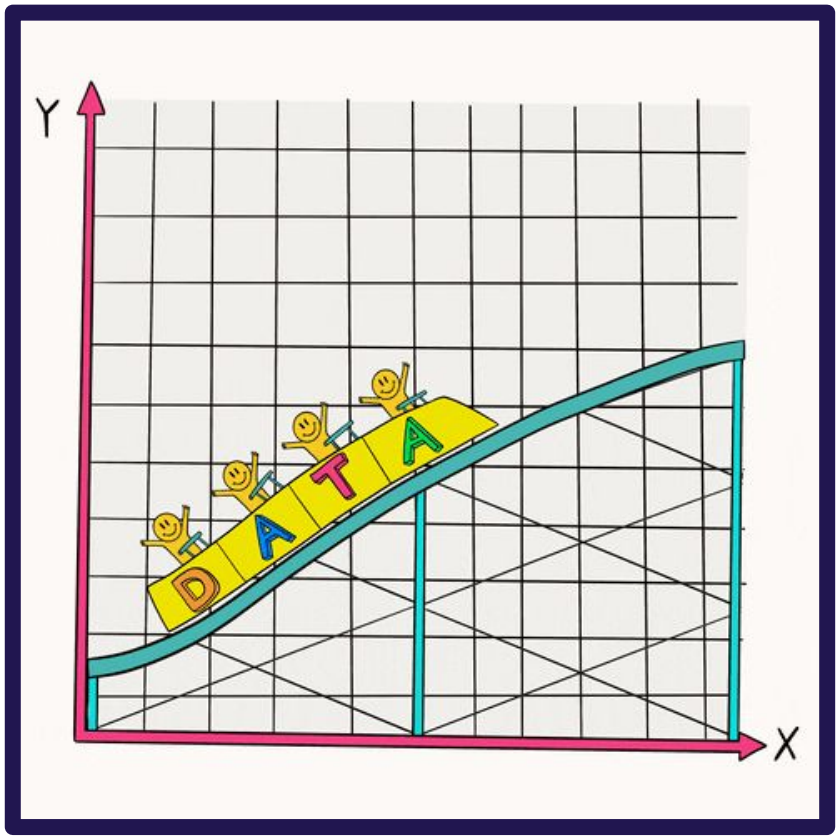
Sean Hickey
Data Analyst
Multi-Tiered Systems of Support

# Tell us about yourself

Poll Everywhere

Respond to the poll at PollEv.com/mpr2022

# Warm Welcome




If you had to describe your feeling right now as an amusement park ride, what ride are you on?

Why?

# DALLAS INDEPENDENT SCHOOL DISTRICT

**Campuses**

230 schools
150 Elementary
40 Middle
40 High

**Choice Schools**

47 Schools
7 Montessori
30 Magnet
10 Transformation

**Students**

Approximately
145,000 students
PK3-12th

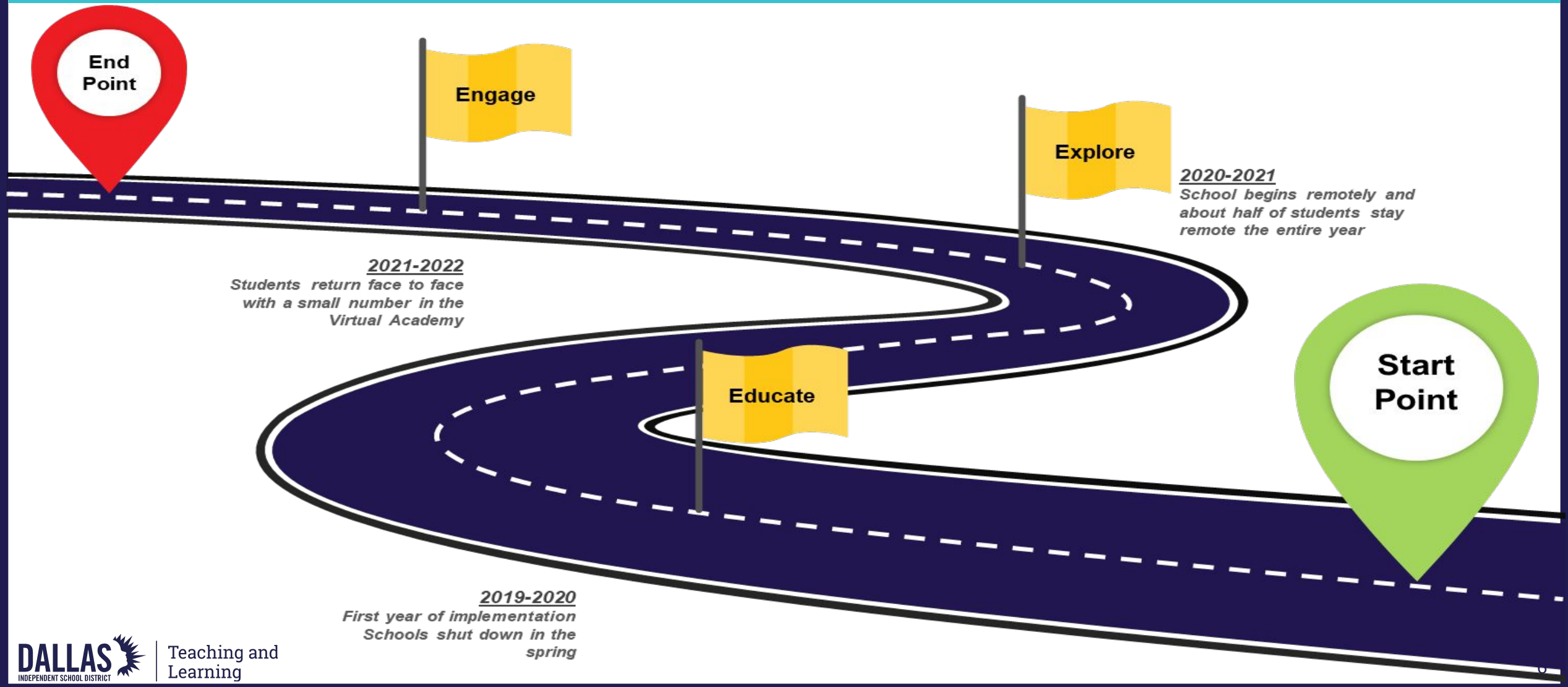
**Staff**

Approximately
22,000 staff members
11,000 teachers

**Demographics**

Approximately
70% Hispanic
20% African
American

# Dallas ISD's MAP Growth Journey




DALLAS INDEPENDENT SCHOOL DISTRICT | Teaching and Learning

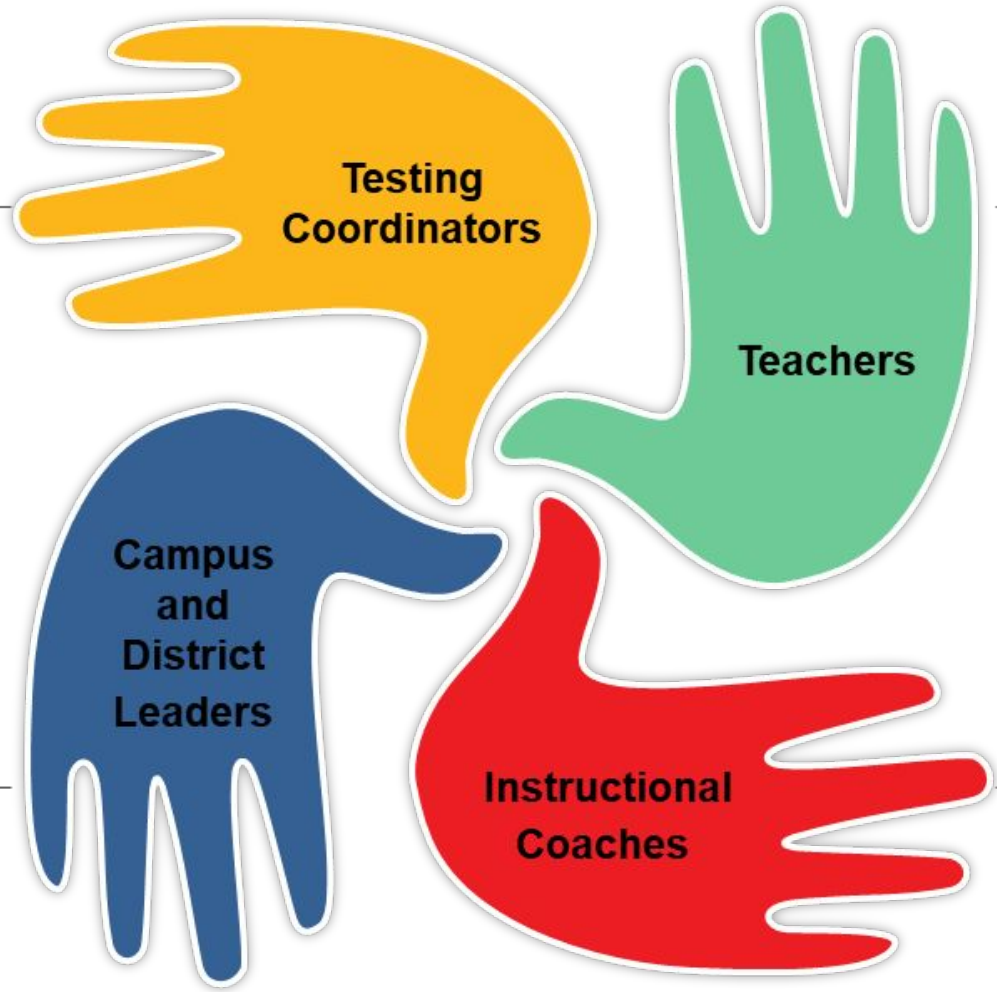
# Supporting All Stakeholders

**Zoom Support Room**

Support to ensure all students participate each testing window

**Custom Reports**

Resources to support data analysis on campuses or by network




**Professional Development**

Provided through out the year highly focused on the Learning Continuum

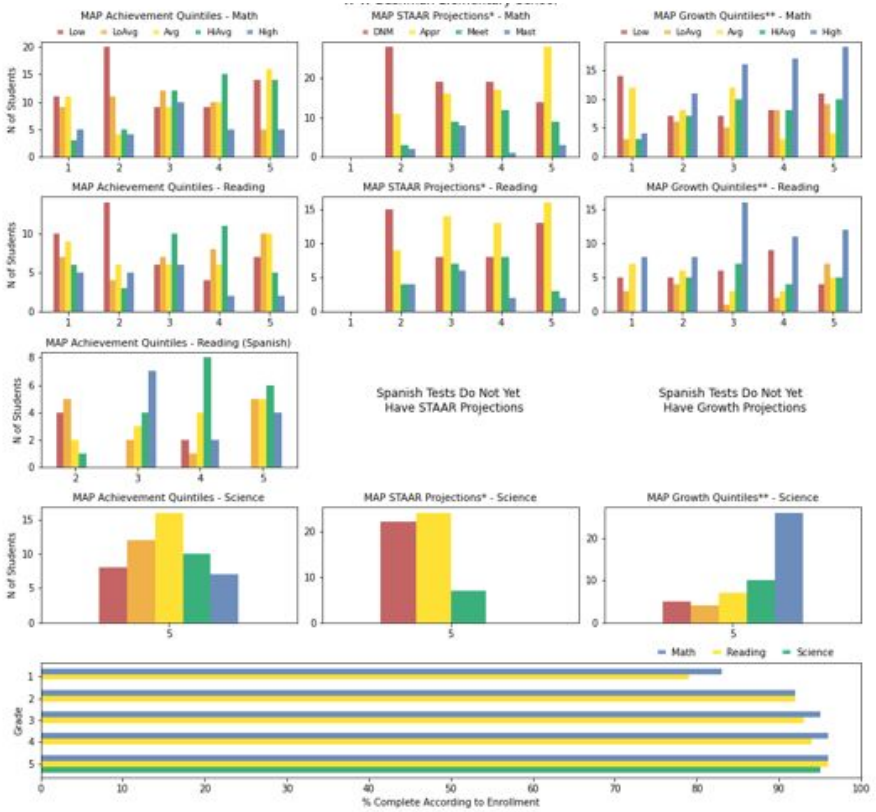
**Personalized Learning**

Custom sessions to support campus and network goals and priorities

# Explore

MAP Data One-Pager:

- Silent Solo
  - Analyze the handout
  - What do you notice?
  - What do you wonder?
- Partner Processing
  - Complete your Notice/Wonder anchor chart
- Share Out



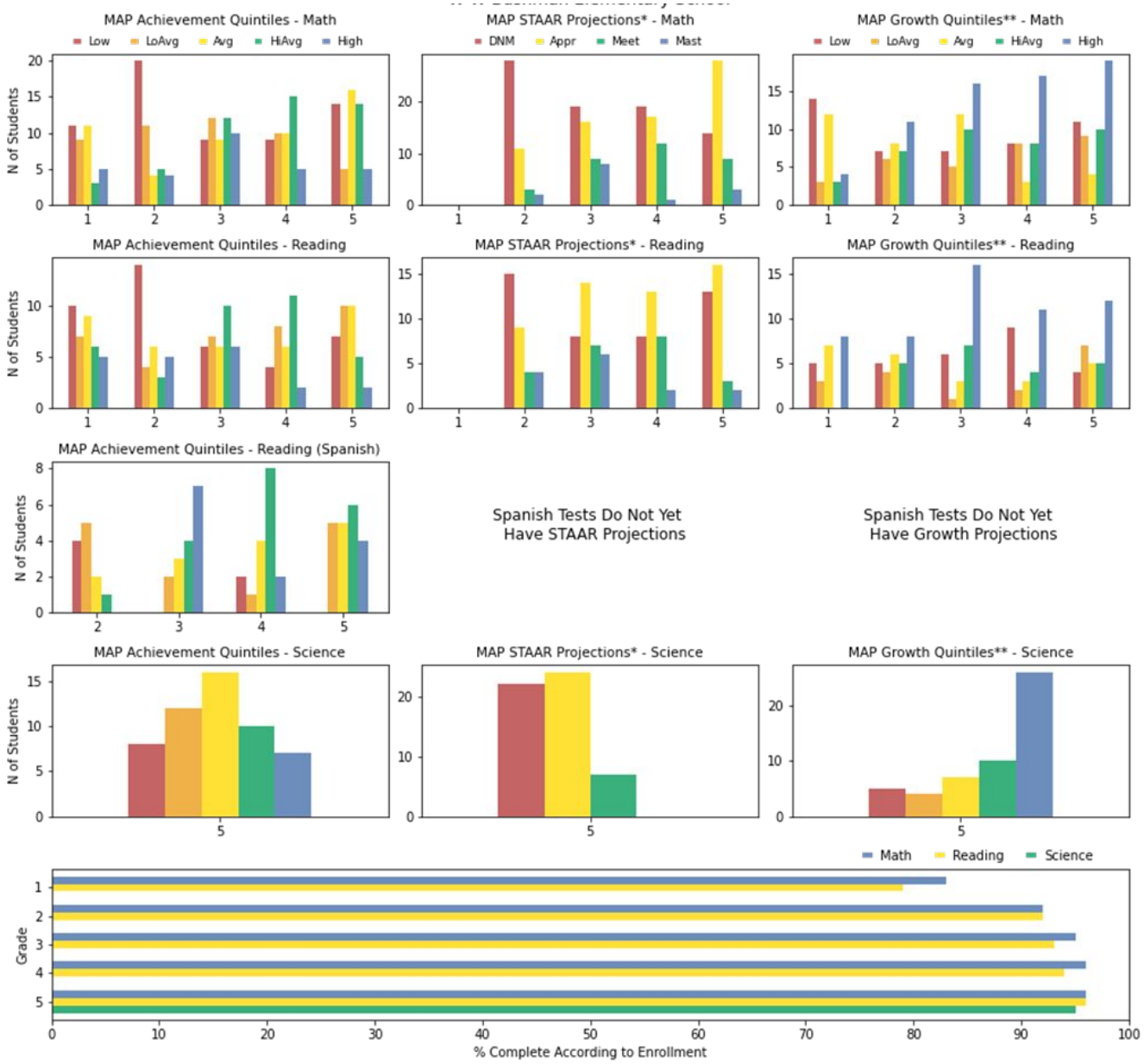

*STAAR projections for where student will be at EOY. 2nd grade projecto to future 3rd grade STAAR.
**MAP Growth Quintiles refers to Fall 2021 to Winter 2022 Growth

**Guiding Questions and Next Steps:**

1. Does the data accurately represent campus enrollment? If not, why? Who is missing?
2. What are campus strengths?
3. What is the STAAR Projected Proficiency as a school? (Projected Proficiency Summary)
4. What is the STAAR Projected Proficiency by classroom? (Class Breakdown by Projected Proficiency)
5. Which grade levels need more support? (Student Growth Summary)
6. Which classrooms need more support? (Achievement Status and Growth Summary)
7. How can instructional time be maximized? (Class Breakdown and Learning Continuum)

**Useful Links:**

NWEA Platform - https://bit.ly/3okqM8X | Report Click Paths - https://bit.ly/2YeoGNj | Reports Portfolio - https://bit.ly/3uq3f7z



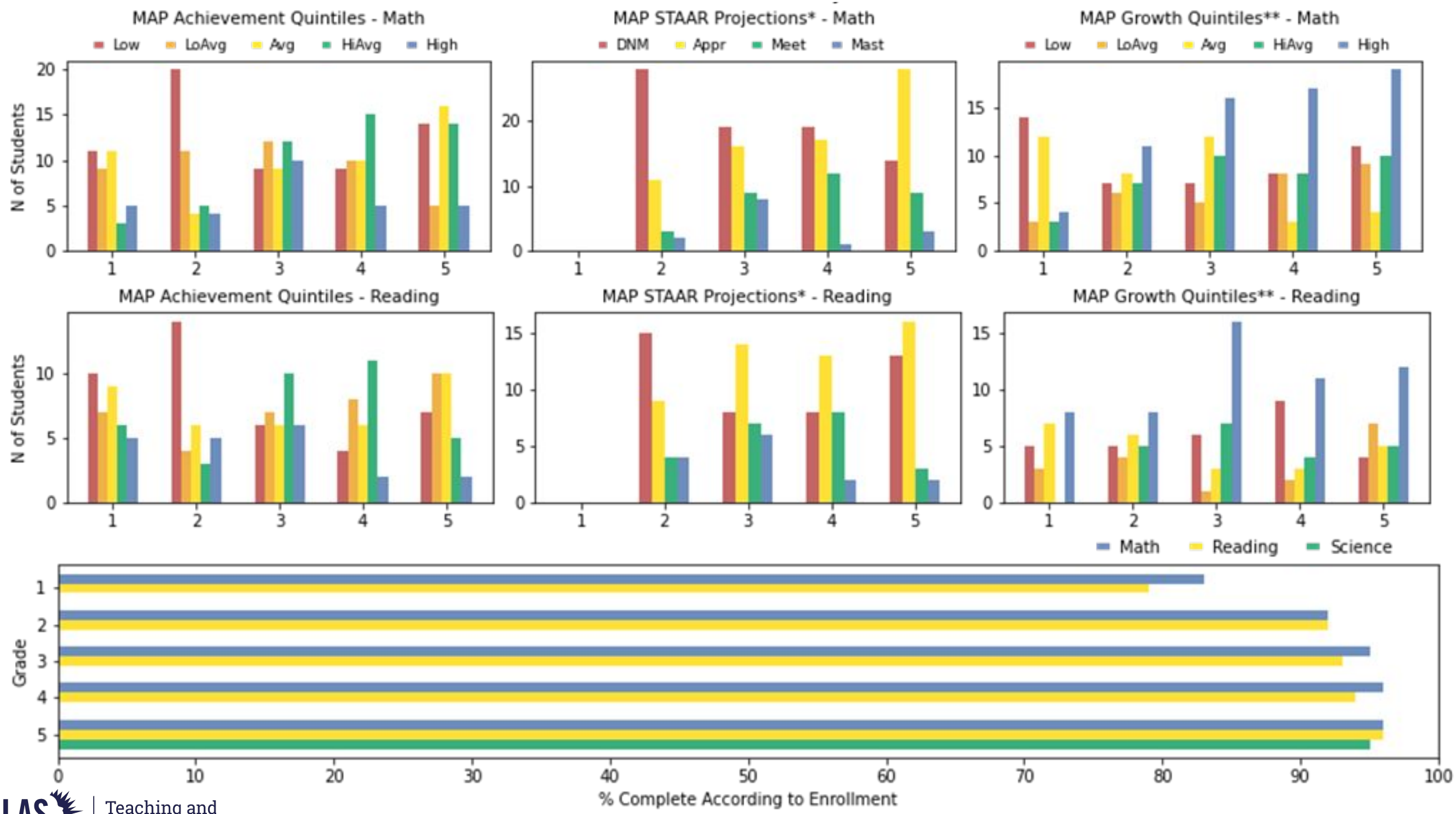

# MAP Growth One Pager

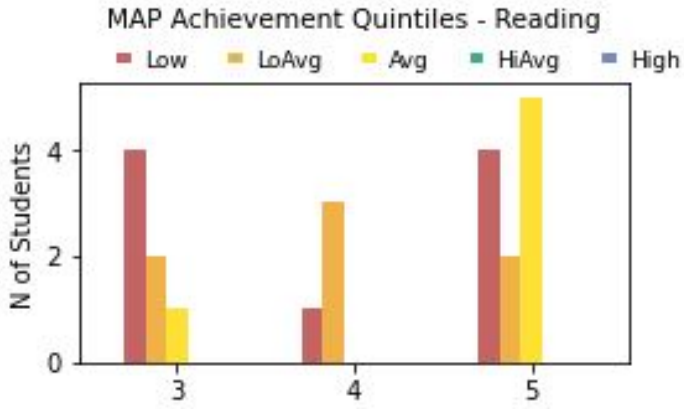
## Guiding Questions and Next Steps:

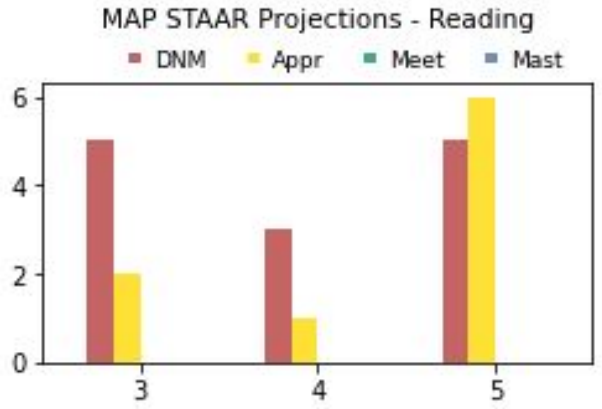
1. Does the data accurately represent campus enrollment? If not, why? Who is missing?
2. What are campus strengths?
3. What is the STAAR Projected Proficiency as a school? (Projected Proficiency Summary)
4. What is the STAAR Projected Proficiency by classroom? (Class Breakdown by Projected Proficiency)
5. Which grade levels need more support? (Student Growth Summary)
6. Which classrooms need more support? (Achievement Status and Growth Summary)
7. How can instructional time be maximized? (Class Breakdown and Learning Continuum)

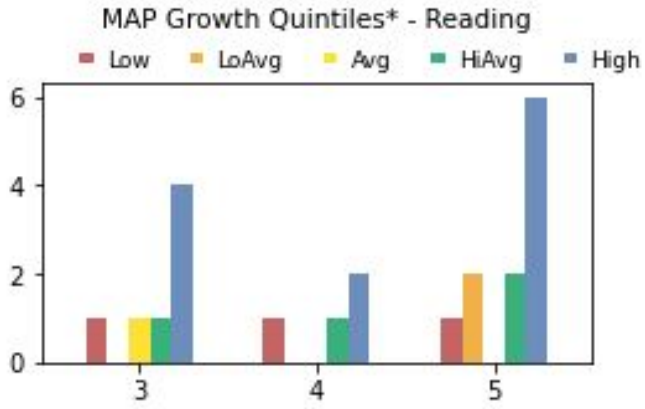
## Useful Links:

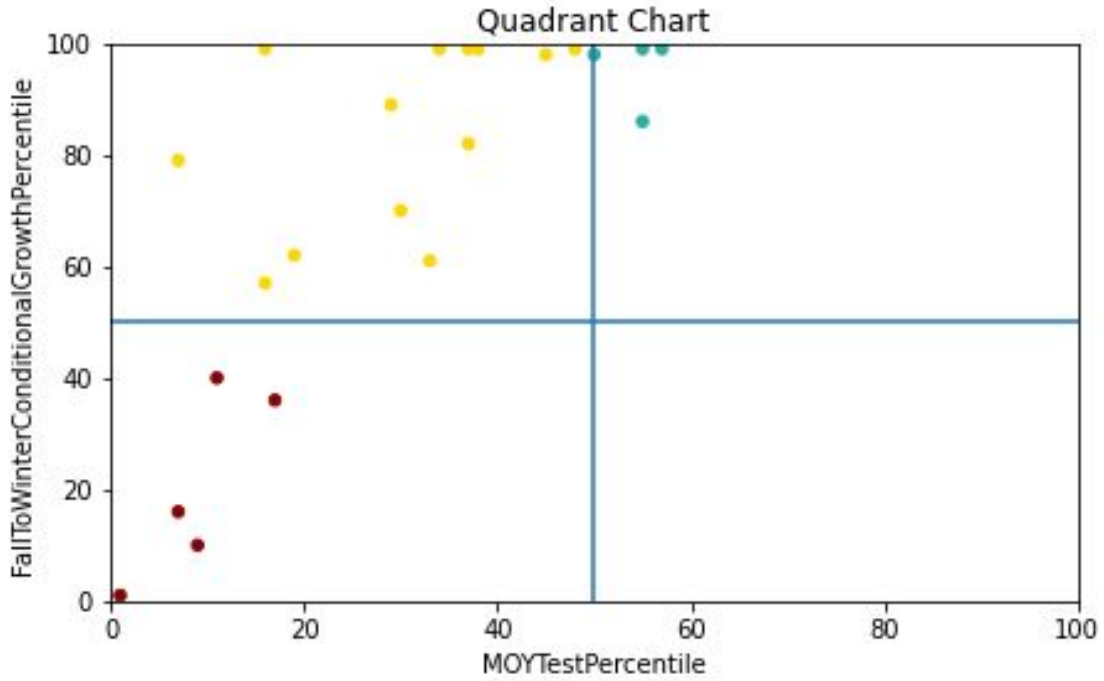
NWEA Platform - https://bit.ly/3okqM8X |
Report Click Paths - https://bit.ly/2YeoGNj |
Reports Portfolio - https://bit.ly/3uq3f7z

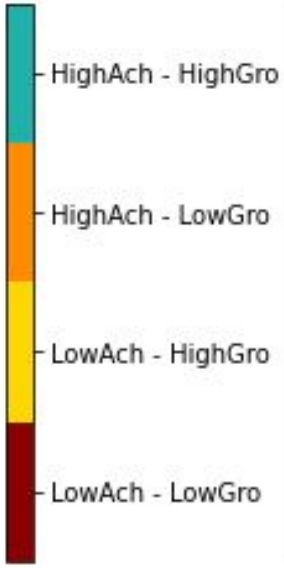

MAP Achievement Quintiles - Math
Low
LoAvg
Avg
HiAvg
High
N of Students
MAP STAAR Projections* - Math
DNM
Appr
Meet
Mast
MAP Growth Quintiles** - Math
MAP Achievement Quintiles - Reading
MAP STAAR Projections* - Reading
MAP Growth Quintiles** - Reading
Math
Reading
Science
Grade
% Complete According to Enrollment




Interventionist:

N of Students: 23

% of Students Meeting Growth: 74.0

BOY Median Test Percentile: 14.0

MOY Median Test Percentile: 31.5

BOY Median Growth* Percentile: 40.0

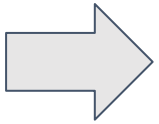
MOY Median Growth** Percentile: 84.0

*BOY Growth = Fall '20 to Fall '21

**MOY Growth = Fall '21 to Winter '22

# The challenge reporting in Dallas ISD:

**230 schools in Dallas ISD took MAP Growth at MOY**



**Manual reporting not feasible**

## What technology was used?

- Data: MAP Combo Assessment File
- Python - free, open-source programming language
- Jupyter Notebook
- Libraries: Pandas, Matplotlib, Docx, io
- Google Drive

## Advantages of Programming

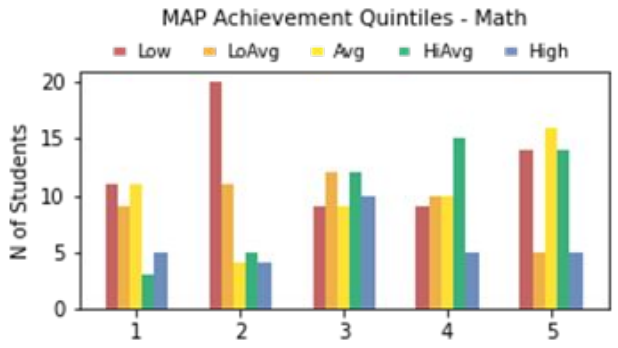
- Free!
- Write it once and then never again!
- Clear documentation of your workflow that you can refer back to.
- Faster and can handle bigger data.
- Access to thousands of libraries
  - Customize reports/graphs.

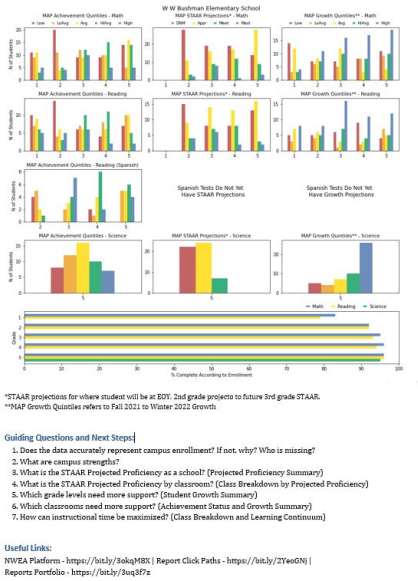
# Workflow (How)

- Code was written over the course of 2-3 weeks
- Takes ~5 minutes to run code and send out all reports to folders for 230 schools

Manipulate data into graphable format (Pandas) → Create data visualizations (Matplotlib) → Insert visualizations into Word document (docx, io) → Save each school's report into their folder on Google Drive

| | | Low | LoAvg | Avg | HiAvg | High |
|---|---|---|---|---|---|---|
| SchoolName | Grade | | | | | |
| o Elementary School | 1 | 18 | 5 | 4 | <NA> | 2 |
| | 2 | 14 | 4 | 4 | 4 | 6 |
| | 3 | 25 | 10 | 5 | 6 | 1 |
| | 4 | 13 | 9 | 14 | 4 | 9 |
| | 5 | 16 | 11 | 16 | 14 | 9 |



*STAAR projections for where student will be at EOY. 2nd grade projects to future 3rd grade STAAR.
**MAP Growth Quintiles refers to Fall 2021 to Winter 2022 Growth

Guiding Questions and Next Steps:

1. Does the data accurately represent campus enrollment? If not, why? Who is missing?
2. What are campus strengths?
3. What is the STAAR Projected Proficiency as a school? (Projected Proficiency Summary)
4. What is the STAAR Projected Proficiency by classroom? (Class Breakdown by Projected Proficiency)
5. Which grade levels need more support? (Student Growth Summary)
6. Which classrooms need more support? (Achievement Status and Growth Summary)
7. How can instructional time be maximized? (Class Breakdown and Learning Continuum)

Useful Links:
NWEA Platform - https://bit.ly/3okqM8X | Report Click Paths - https://bit.ly/2YeoGNj |
Reports Portfolio - https://bit.ly/3uq3f7z

```
data = pd.read_csv(r'C:\NWEA_Conference\SampleSchoolData.csv')
```

1. Import dataset into python.

```
list_of_all_schools = list(data.School.unique())
```

2. Make a list of all schools in the dataset.

```
reading_data = data[data['Course'] == 'Reading']
```

3. Filter the dataset to include only reading.

```
for school_name in list_of_all_schools:
```

4. Select first school from the list

```
    school_data = reading_data[reading_data['School'] == school_name]
```

5. Filter the dataset for selected school

```
    grouped_school = school_data.groupby(['Grade'])[['TestPercentile', 'GrowthPercentile']].median
```

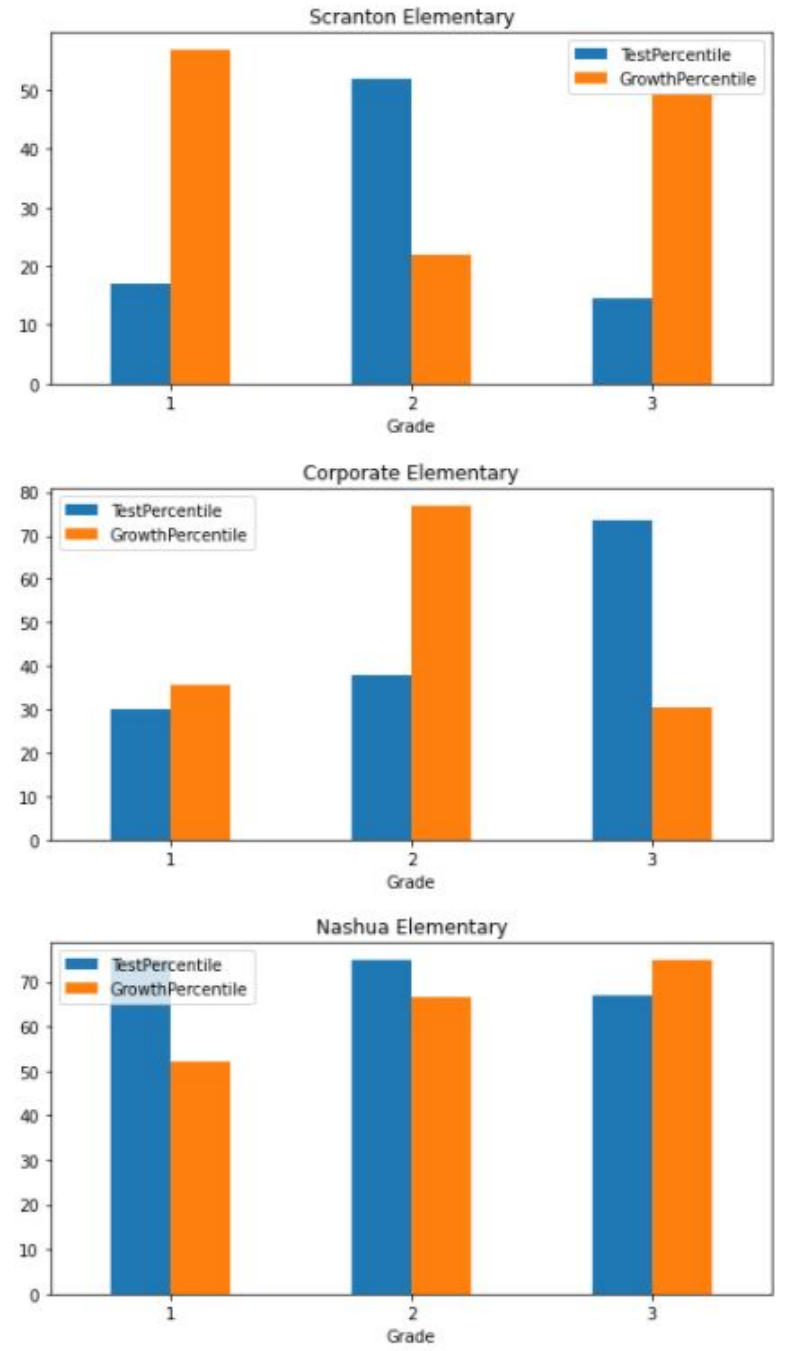
6. For each grade level, calculate the median test and growth percentile at specified school

```
    grouped_school.plot(kind='bar', rot=0, figsize=(8,4), title=school_name)
```

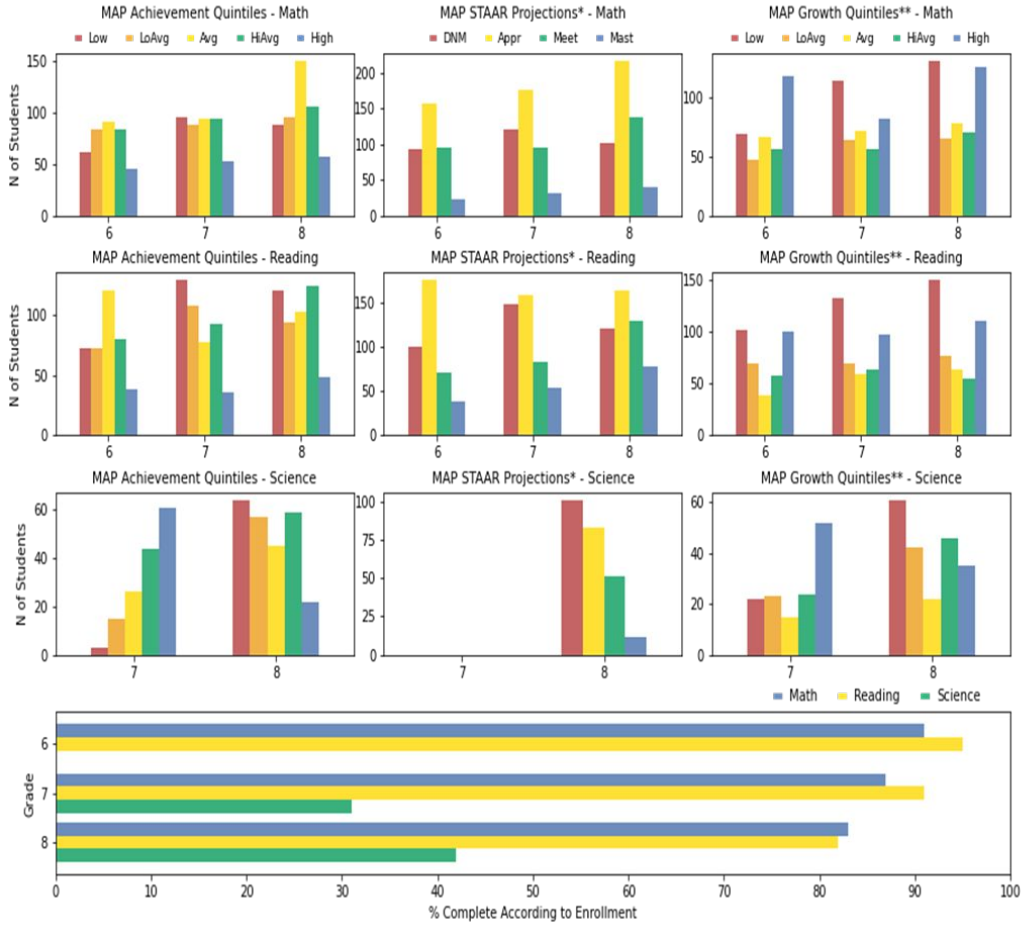
7. Make a graph of the data

```
    plt.savefig(r'C:\NWEA_Conference\SchoolImages\{}.jpg'.format(school_name))
```

8. Save graph of the data in the folder you choose.



# QR to One Pager Code




SCAN ME

https://qrco.de/onepagercode

# Feedback


High level data
Multiple reports
Visuals
Participation
Timely
Clear next steps

# Optimistic Closing

**What?**

What did we learn today?

**So What?**

What is your biggest take away?

**Now What?**

What can you implement?

# Contact us at MTSS@dallasisd.org

# Thank you!

# Any Questions


# Appendix

DALLAS INDEPENDENT SCHOOL DISTRICT | Teaching and Learning

# Code to Sample Code, Sample Data, and One Pager Code

# Let's bring sample school data into Jupyter using Python

```
import pandas as pd
import matplotlib.pyplot as plt
```

```
data = pd.read_csv(r'C:\NWEA_Conference\SampleSchoolData.csv')
data.head()
```

| | School | Name | Grade | Course | TestPercentile | GrowthPercentile |
|---|---|---|---|---|---|---|
| 0 | Scranton Elementary | Michael | 1 | Reading | 17 | 96 |
| 1 | Scranton Elementary | Pam | 2 | Reading | 25 | 12 |
| 2 | Scranton Elementary | Jim | 3 | Reading | 8 | 50 |
| 3 | Scranton Elementary | Dwight | 1 | Reading | 24 | 57 |
| 4 | Scranton Elementary | Oscar | 2 | Reading | 79 | 32 |

# Let's look at some basic info about the data

```
print('N of Rows and Columns', data.shape)
print('Schools in File', data.School.unique())
print('Courses in File', data.Course.unique())
```

```
N of Rows and Columns (50, 6)
Schools in File ['Scranton Elementary' 'Corporate Elementary' 'Nashua Elementary']
Courses in File ['Reading' 'Math']
```

# Let's look at only reading data

```
reading_data = data[data['Course'] == 'Reading']

print('Courses in File', data.Course.unique())
```

```
Courses in File ['Reading']
```

# What is the median test percentile for each grade in Reading?

```
grouped_grade = reading_data.groupby(['Grade'])['TestPercentile'].median()
grouped_grade
```

```
Grade
1    24.0
2    53.5
3    65.5
```

# What is the median test percentile for each school in Reading?

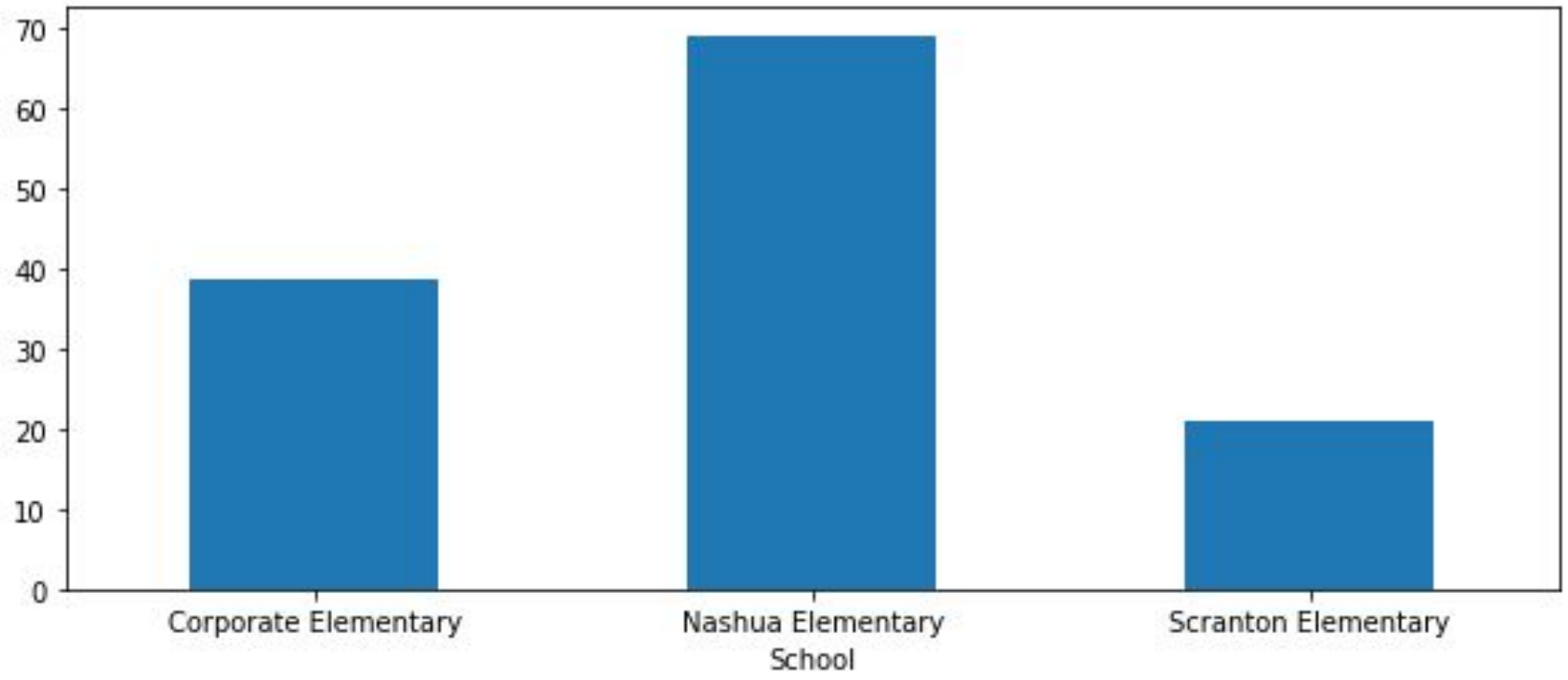
```
grouped_school = reading_data.groupby(['School'])['TestPercentile'].median()
grouped_school
```

```
School
Corporate Elementary    38.5
Nashua Elementary       69.0
Scranton Elementary     21.0
```

# Create a graph showing the results

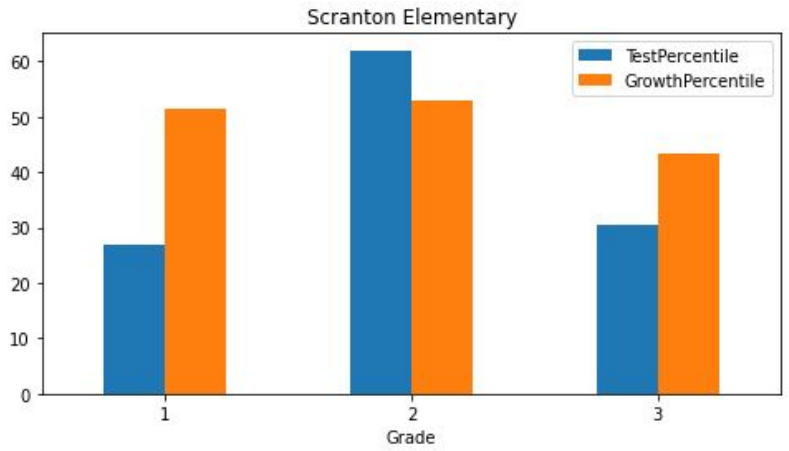
```
grouped_school.plot(kind='bar', rot=0, figsize=(10,4))
```

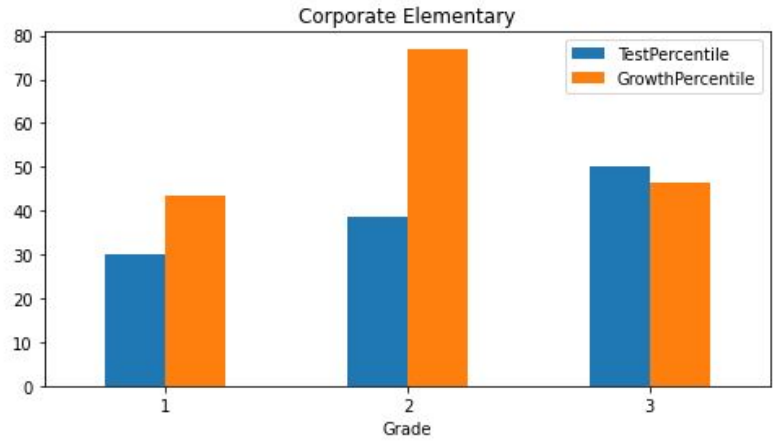
```
<AxesSubplot:xlabel='School'>
```

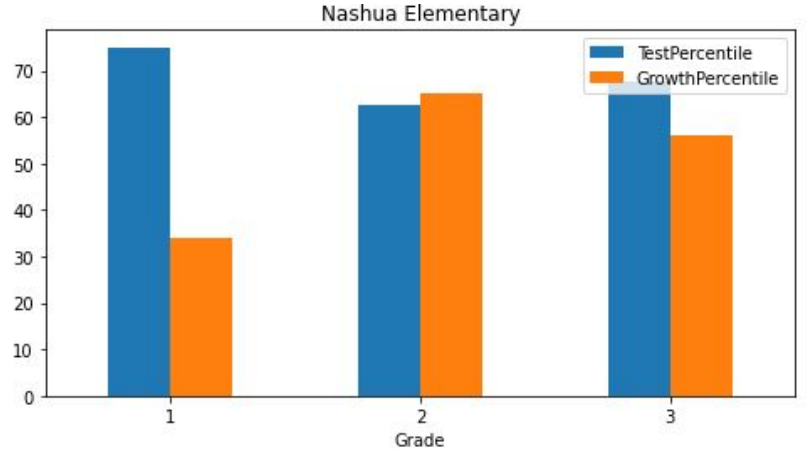


# What are the median test and growth percentiles of each grade level at each campus?

```
for school_name in list(data.School.unique()):
    school_data = data[data['School'] == school_name]
    grouped_school = school_data.groupby(['Grade'])[['TestPercentile', 'GrowthPercentile']].median()
    grouped_school.plot(kind='bar', rot=0, figsize=(8,4), title=school_name)
    plt.savefig(r'C:\NWEA_Conference\SchoolImages\{}.jpg'.format(school_name))
```



DALLAS INDEPENDENT SCHOOL DISTRICT | Teaching and Learning

# THANK YOU!