

# Plotting the Points: Using Data to Support Teacher Teams

November 2024



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## Welcome

Thank you for joining me today!



**Jonte' Hill**  
Educator Support Specialist  
SAS EVAAS



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# AGENDA

01

FOUNDATIONS

02

REPORT TOUR

03

GROWTH VS. ACHIEVEMENT

04

COLLABORATIVE PARTNERS

05

RESOURCES AND SURVEY



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## Scatterplots Desk Reference

**NAVIGATION** How do I find the views and comparisons I need?

**CONFIGURATION** When you are ready to look at a selected population, year, or base test and subject, open the configuration by clicking on the Blue Configuration banner.

**AXIS SELECTION** Click here to select the variables for your scatterplot. You can choose from a range of predefined selections or opt for custom axis selections.

**FLIP AXES** Click here to flip your axes in case that provides a more meaningful view.

**COMPARE BY** Use the radio buttons to compare by year, grade, or other.

**HIGHLIGHT YOUR DATA** This slide below the scatterplot offers detailed information about your data points.

**SAS® EVAAS**

**Features of the New Scatterplot**

**EXPANDED DATA VIEWS** Examine relationships between two variables for your own data points in purple, with population data points in gray for context.

**EASY COMPARISONS** Compare scatterplots by year, grade, or other using the Compare by options in the filter panel along with the buttons above the graph.

**CUSTOMIZABLE DISPLAYS** Assign, activate, and deactivate data groups to customize your views through the data list and graph legends.

**CLICK PATHS** What are some useful views in the new report?

**What do I click?**

**What will I see?**

**COMPONENTS**

**Configuration File** This file appears when you arrive to the report and also sits at the top of the Filter panel when you have made your selections. It enables you to select and update your desired population, base year, and base test and subject.

**Axis Selection** This section on the Filter panel is employed on the report just beneath the configuration file. Each drop-down menu enables you to choose what information is displayed on the scatterplot axes. The default view shows the relationship between Growth Index and Achievement.

**Predefined Axis Selections** You can choose from a selection of measures to plot on a scatterplot.

**Custom Axis Selections** You can also select your own combinations of measures from the Vertical Axis and Horizontal Axis options.

**Flip Axes** You can flip the vertical and horizontal axes to change the perspective of the data for interpretation.

**Data List** This list sits below the scatterplot and enables you to highlight data points using the Data Group drop-down menus. The Data Table tab displays numerical values for each data point in your scatterplot.

**Graph Legend** This component gives you the ability to activate or deactivate specific data groups using the Active buttons. It also provides information about visible elements and reference lines on your scatterplot.



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# AGENDA

- 01 FOUNDATIONS
- 02 REPORT TOUR
- 03 GROWTH VS. ACHIEVEMENT
- 04 COLLABORATIVE PARTNERS
- 05 RESOURCES AND SURVEY

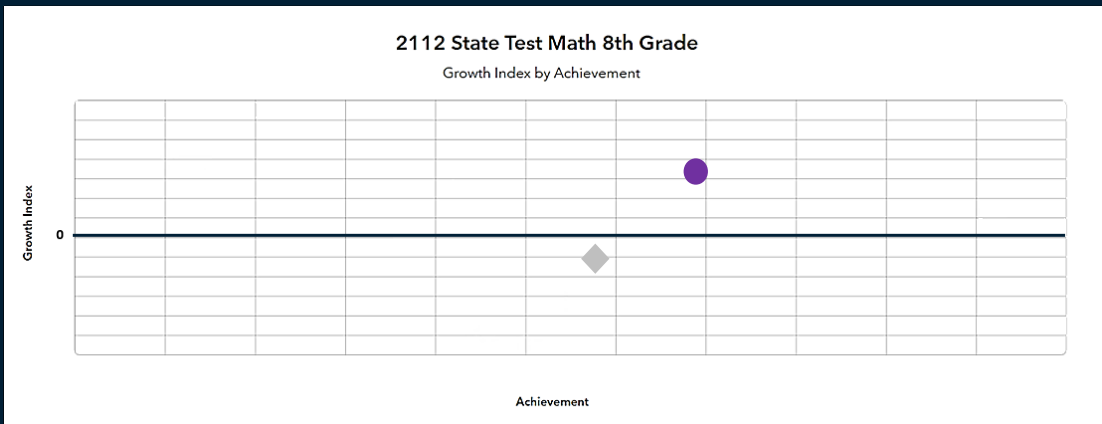
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## Scatterplots Foundations

2112 State Test Math 8th Grade  
Growth Index by Achievement



Achievement	Growth Index
High	High
Low	Low

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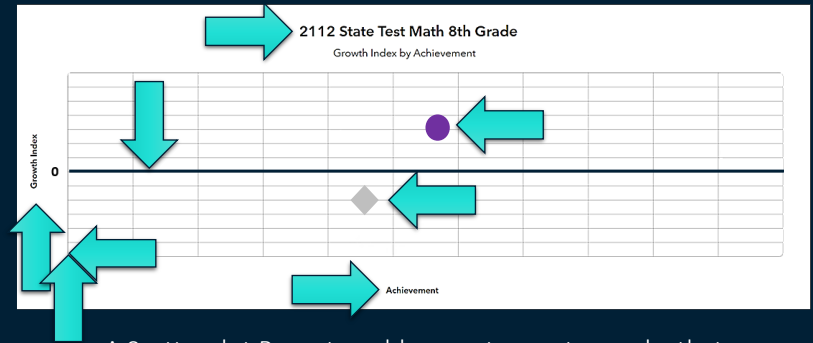
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## Orientation

## Scatterplot Components

Data Point

## Scatterplot Foundations



A Scatterplot Report enables you to create graphs that show the relationship between two variables, like Growth Index and Achievement.

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## Achievement vs. Growth

Is it possible for students of all backgrounds to show academic growth?

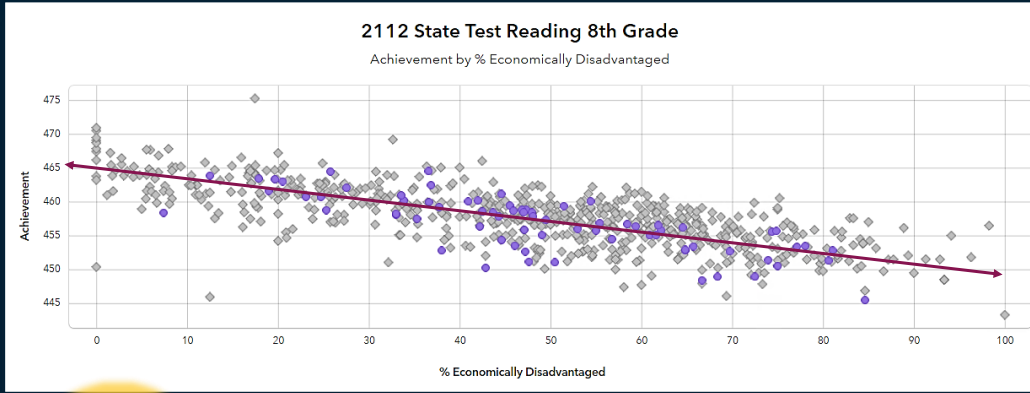
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# Understanding the Relationship

## Achievement and Economically Disadvantaged



Do you see a relationship?

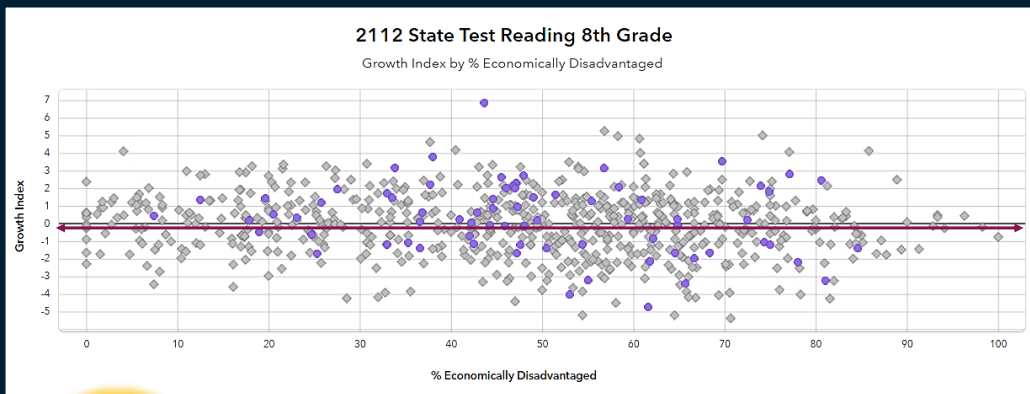


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# Understanding the Relationship

## Growth and Economically Disadvantaged



Do you see a relationship?



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# AGENDA

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- 05 RESOURCES AND SURVEY

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## Scatterplot Report



## Navigation



```
graph TD; A[Reports Menu] --> B[Comparison Reports]; B --> C[Scatterplots];
```

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Tour

# Scatterplot Report

## Scatterplots Overview

Search Account Admin Contact Us Sign Out

Reports Print Export e-Learning Help

### Scatterplot Report

**Configuration**  
Configure and submit the following fields to view data.

1. Population \*  
Select a population...

2. Base Year \*  
Select a year...

3. Base Test and Subject \*  
Select a test and subject...

Submit

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Population

# Scatterplot Report

All **divisions** in the state

All **schools** in the state  
All **schools** in my access

Search Account Admin Contact Us Sign Out

Reports Print Export e-Learning Help

### Scatterplot Report

**Configuration**  
Configure and submit the following fields to view data.

1. Population \*  
Select a population...

2. Base Year \*  
Select a year...

3. Base Test and Subject \*  
Select a test and subject...

Submit

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### Base Year

2024

2023

2022

## Scatterplot Report

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**Scatterplot Report**

**Configuration**  
Configure and submit the following fields to view data.

1. Population \*  
Select a population...

2. Base Year \*  
Select a year...

3. Base Test and Subject \*  
Select a test and subject...

Submit

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### Base Test and Subject

SOL ELA 4-8

SOL Math 4-8

SOL Science 5 & 8

SOL EOC

## Scatterplots

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**Scatterplot Report**

**Configuration**  
Configure and submit the following fields to view data.

1. Population \*  
Select a population...

2. Base Year \*  
Select a year...

3. Base Test and Subject \*  
Select a test and subject...

Submit

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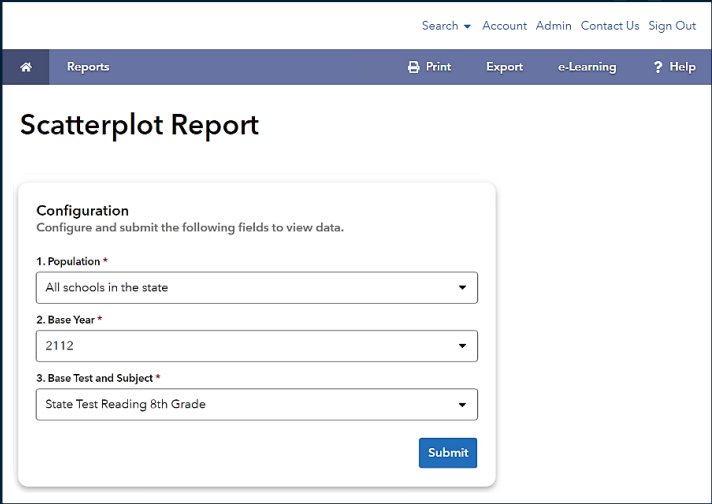
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Tour

# Scatterplot Report

Scatterplots Overview



Search Account Admin Contact Us Sign Out

Reports Print Export e-Learning Help

### Scatterplot Report


**Configuration**  
Configure and submit the following fields to view data.

1. Population \*  
All schools in the state

2. Base Year \*  
2112

3. Base Test and Subject \*  
State Test Reading 8th Grade

Submit

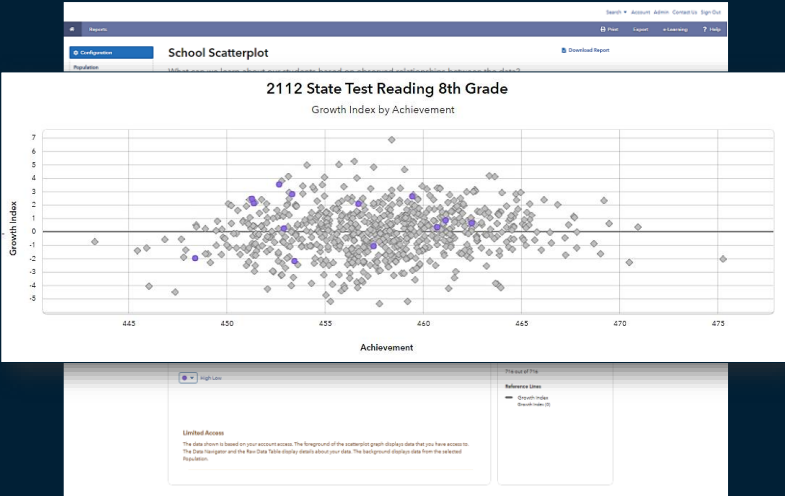
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Tour

# Scatterplot Report

Scatterplots Overview



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Reports Print Export e-Learning Help

### School Scatterplot

Download Report

#### 2112 State Test Reading 8th Grade

Growth Index by Achievement

Growth Index


Achievement

High-Low

Download the

- Achievement Index
- Growth Index
- Download Data

**Unfiltered Access**  
This view is based on your account access. The background of the scatterplot graph displays data that you have access to. The Data Navigator and the Facet Data Table display details about your data. The background displays data from the selected Population.

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## Scatterplot Report

Data Points

Division or School

User **has access** to division or school data.

User **has no access** to division or school data.

**2112 State Test Reading 8th Grade**  
Growth Index by Achievement

Growth Index

Achievement

Limited Access

High-Low

Limited Access

Reference Lines

Growth Index

Growth Index (0)

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## Scatterplot Report

Data Points

# Scatterplots Overview

**School Scatterplot**

What can we learn about our students based on observed relationships between the data?

This report enables you to create graphs that display the relationships between two variables. Choose a variable for each axis in the graph to customize the way the data is displayed.

Average Growth Index by Achievement

This section shows the relationship between growth and student achievement level. The pattern you see can provide insight into the effects of educational practices and policies. [Read more](#)

**2112 State Test Reading 8th Grade**  
Growth Index by Achievement

Growth Index

Achievement

Graph Legend

Data Groups

School (Default)  Active

School (Limited Access)

Visible Data Points

716 out of 716

Reference Lines

Growth Index

Growth Index (0)

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Data Points

Scatterplots  
Overview

## Scatterplot Report

**2112 State Test Reading**  
Growth Index by Achievement

● Gully Middle School

Growth Index: 2.63  
Achievement: 459.4

Growth Index

440 445 450 455 460 465 470 475 480

Reference Lines  
— Growth Index  
— Achievement

Limited Access  
The data shown is based on your account access. The foreground of the scatterplot graph displays data that you have access to. The data background and the fact data table display results based on your data. The background displays data from the selected Population.

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Tour

Scatterplots  
Overview

## Scatterplot Report

**Data**

🔍 Search districts, schools... ▾

Browse Data Table

All Districts

Data Group	School	Growth Index	Achievement
● ▾	Cascade K-8 School	0.34	460.7
● ▾	Deep Canyon Middle School	2.80	453.3
● ▾	Edgewood K-8 School	2.08	456.7
● ▾	Great Ravine Middle School	3.53	452.7
● ▾	Green Rise K-8 School	2.46	451.3

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# Scatterplots

## Data Group

Default
Group C

Group A
Group D

Group B
Hidden

### School Scatterplot

What can we learn about our students based on observed relationships between the data?

Data

Browse
Data Table

All Districts

Data Group	School	Growth Index	Achievement
★	Cascade K-8 School	0.34	460.7
●	Deep Canyon Middle School	2.80	453.3
★	Edgewood K-8 School	2.08	456.7
●	Great Ravine Middle School	3.53	452.7
★	Green Rise K-8 School	2.46	451.3

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# Scatterplots

[Home](#)
Search
Account
Admin
Contact Us
Sign Out

### School Scatterplot

What can we learn about our students based on observed relationships between the data?

[Download Report](#)

## 2112 State Test Reading 8th Grade

### Growth Index by Achievement

**Limited Access**  
 The data shown is based on your account access. The background of the scatterplot grid displays data that you have access to. The Data Navigator and the First Data Table display details about your data. The background displays data from the selected Population.

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Tour

# Scatterplots Overview

## Scatterplot Report

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Predefined Selections

Growth vs.

Achievement

% Level P/P or higher

% Economically Disadvantaged

% English Learners

% Students with Disabilities

## Scatterplot Report

	Average Growth Index	Achievement
School	0.34	460.7
School	2.80	453.3
School	2.08	456.7
School	3.93	452.3
School	2.88	451.9
School	2.03	459.4
School	0.94	461.1
School	-3.19	453.4
School	2.13	451.4
School	-1.08	457.5

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### Predefined Selections

- Growth
- Achievement vs.
- Growth
- % Economically Disadvantaged
- % Student with Disabilities
- % English Learners

## Scatterplot Report

**Configuration**

Population  
All schools in my access

Base Year  
2112

Base Test and Subject  
State Test Reading 8th Grade

---

**Axes Selection**

Growth vs. Achievement

Flip axes

**Compare by**

None

Year

Grade

Other

	Average Growth Index	Achievement
School	0.34	460.7
School	2.80	453.3
School	2.08	456.7
School	3.93	462.3
School	2.16	451.3
School	2.43	459.4
School	0.84	461.1
School	-3.19	453.4
School	2.13	451.4
School	-1.08	457.5
School	...	...

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### Predefined Selections

- Growth
- Achievement
- Custom Axis Selection

**Axes Selection**

Custom axis selections

**Vertical Axis**

Growth Index

**Horizontal Axis**

Achievement

Flip axes

## Scatterplot Report

**Configuration**

Population  
All schools in my access

Base Year  
2112

Base Test and Subject  
State Test Reading 8th Grade

---

**Axes Selection**

Growth vs. Achievement

Flip axes

**Compare by**

None

Year

Grade

Other

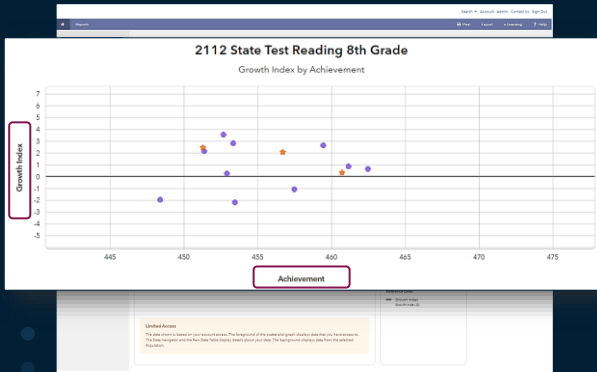
	Average Growth Index	Achievement
School	0.34	460.7
School	2.80	453.3
School	2.08	456.7
School	3.93	462.3
School	2.16	451.3
School	2.43	459.4
School	0.84	461.1
School	-3.19	453.4
School	2.13	451.4
School	-1.08	457.5
School	...	...

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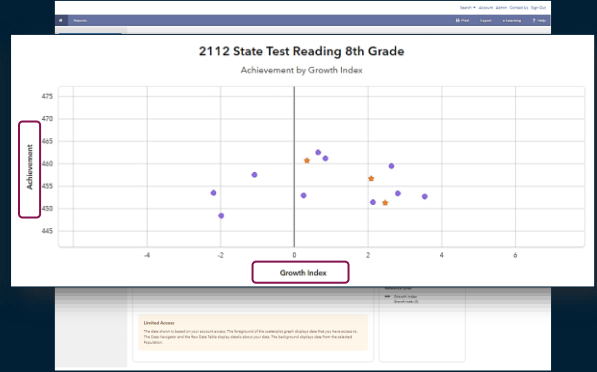
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# Scatterplots

## Growth Index by Achievement



## Achievement by Growth Index



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Tour

# Scatterplot Report

## Scatterplots Overview

**Configuration**

Population  
All schools in the state

Base Year  
2112

Base Test and Subject  
State Test Reading 8th Grade

---

**Axes Selection**

Growth vs. Achievement

Flip axes

**Compare by**

None

Year

Grade

Other

based on observed relationships between the data?

between two variables. Choose a variable for each axis in the graph to customize the way the data is displayed.

achievement level. The pattern you see can provide insight into the effects of educational practices and policies. [Read more](#)

2112 State Test Reading 8th Grade  
Growth Index by Achievement

**Graph Legend**

Data Series

- Selected (Default)
- Unselected (Unselected)

Visible Data Points

714 out of 716

Selected Series

- Growth Index
- Achievement (1)

Legend of the scatterplot graph displays data that you have selected. Drag your data. The background displays data from the selected.

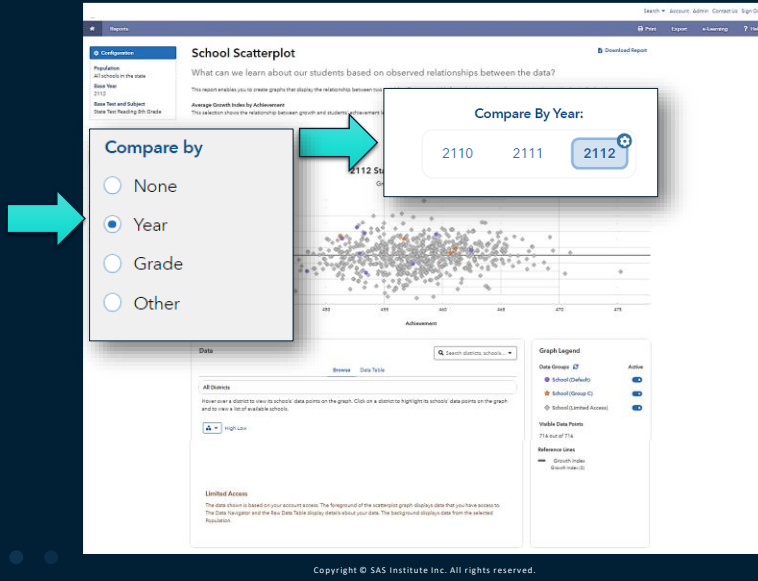
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# Scatterplots

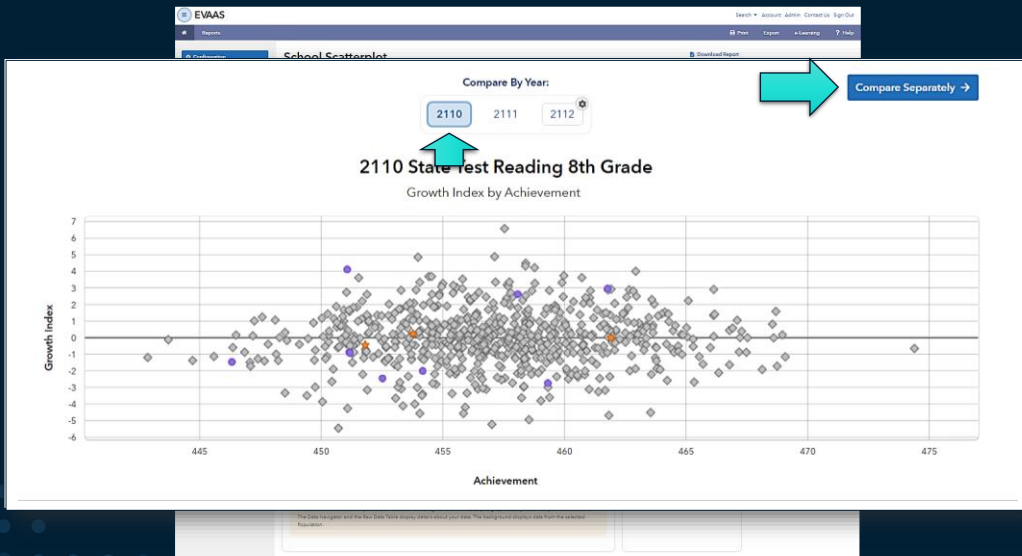
## Compare by Year



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# Scatterplots

## Compare by Year



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# Scatterplot Report

Compare Separately



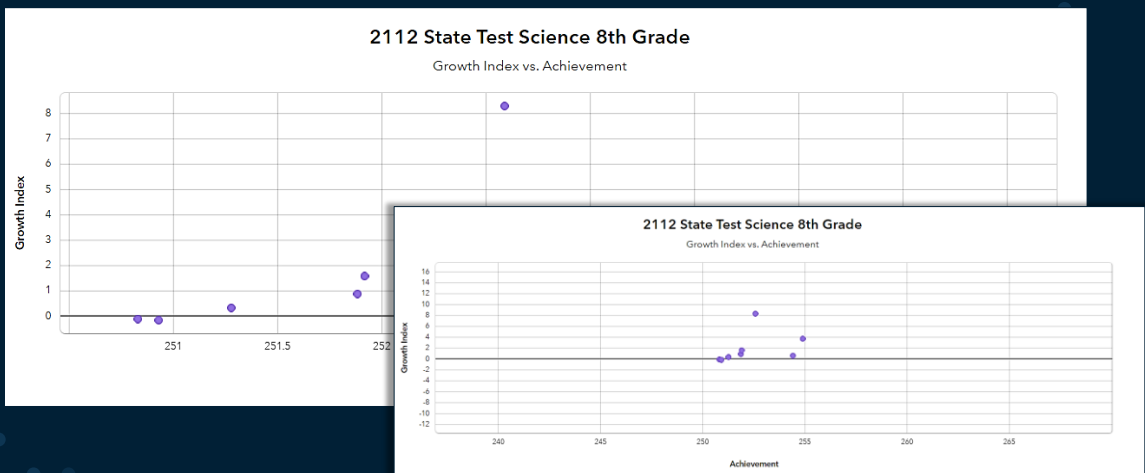
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# Scatterplot Scale

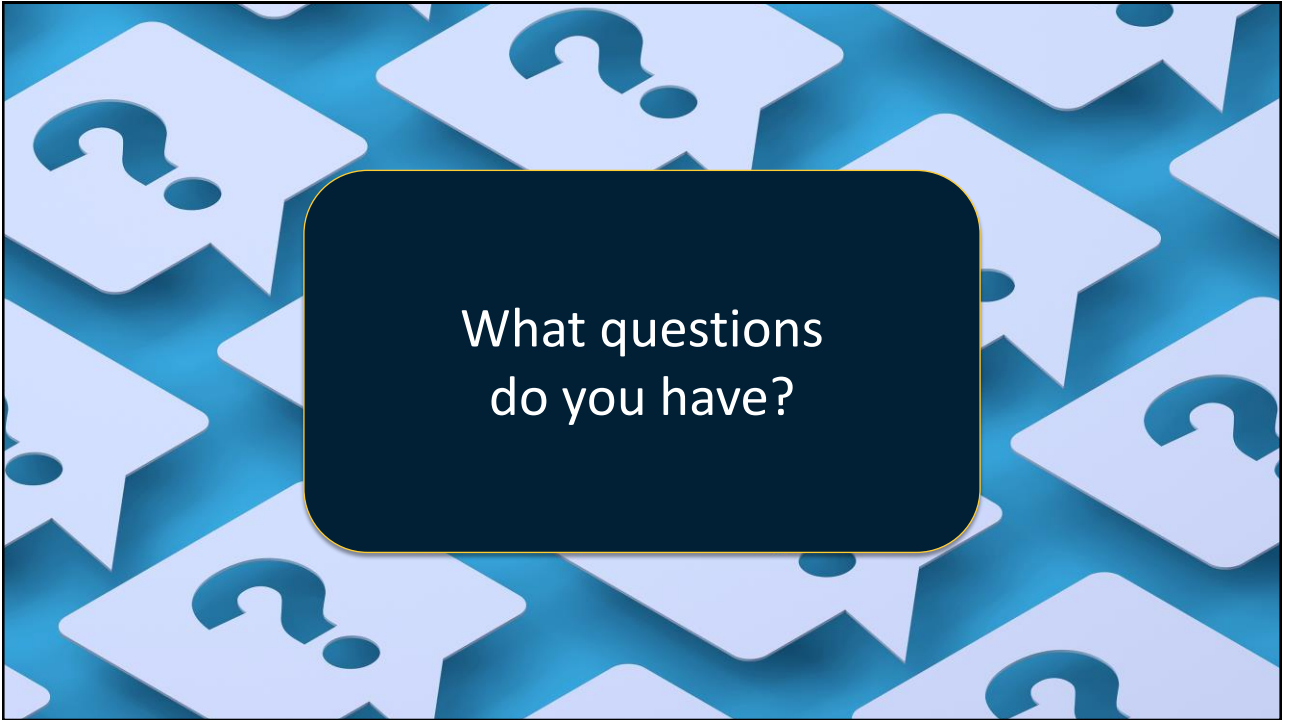
What am I looking at?



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## AGENDA

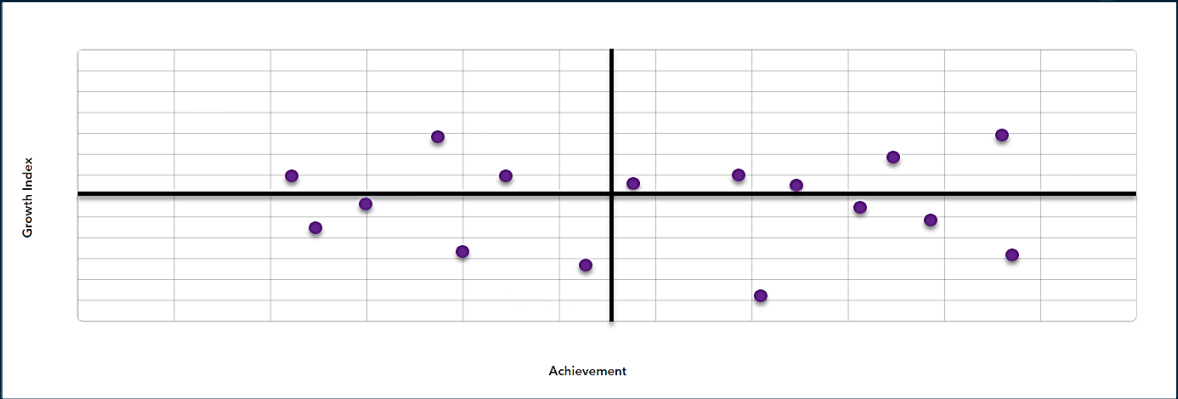
- 01 FOUNDATIONS
- 02 REPORT TOUR
- 03 **GROWTH VS. ACHIEVEMENT**
- 04 COLLABORATIVE PARTNERS
- 05 RESOURCES AND SURVEY

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# Understanding the Relationship

## Growth and Achievement



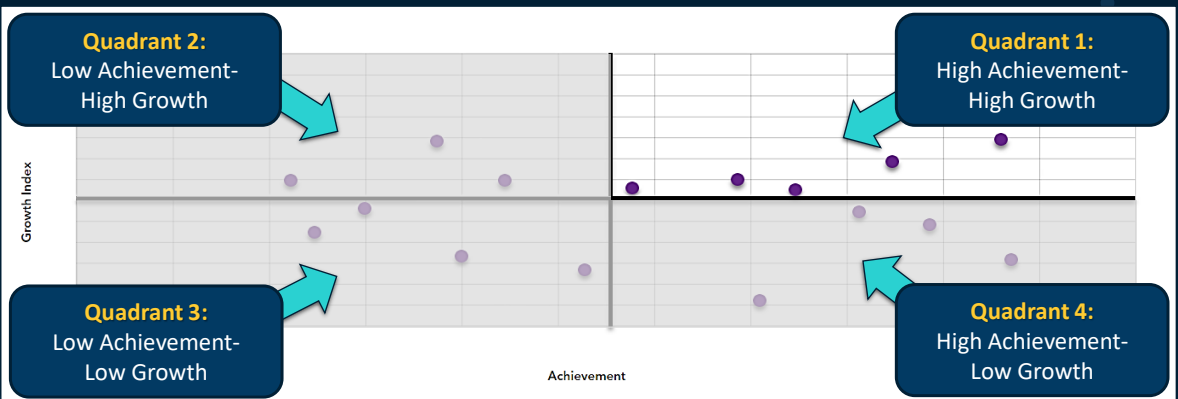
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# Understanding the Relationship

## Growth and Achievement



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## Scatterplots Implications

### Growth and Achievement

Consider the implications of each quadrant.

1. **Identify** implications associated with your assigned quadrant on the scatterplot.
2. **Record** group thoughts on the scatterplot poster.
3. **Choose** a spokesperson to share your group's thoughts.

**Activity Timer:**

Quadrant 1: High Achievement-High Growth	
Learning and Instruction	
Curriculum and Resources	
Context and Environment	
Other	

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## My Own Data Story

### Scatterplot Report

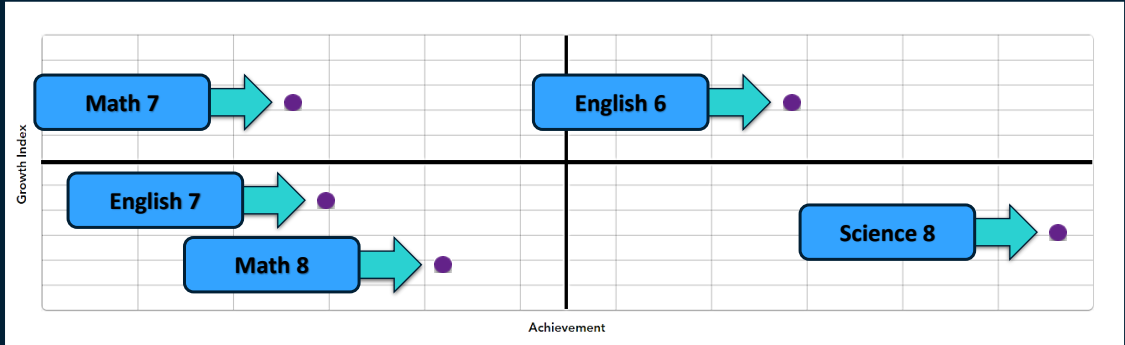
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# Scatterplots Deep Dive

Consider the implications of your school or division Scatterplot data.



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# Navigation



Where is VVAAS?

<https://vvaas.sas.com>

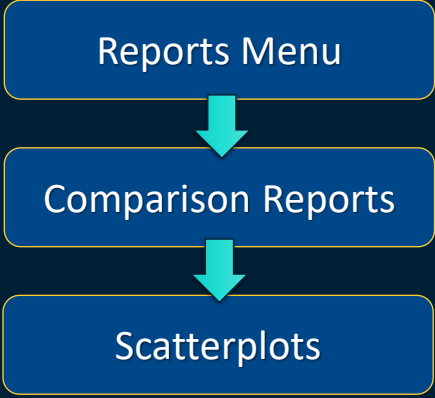


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### Scatterplot Report



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### Population

### Scatterplots

All schools in the state



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Year

# Scatterplots

2024

The screenshot shows the SAS 'Scatterplot Report' configuration interface. On the left, a dark blue sidebar contains the word 'Year' at the top and a rounded rectangular button with the text '2024'. A cyan arrow points from this button to the '2. Base Year' dropdown menu in the configuration form. The configuration form is titled 'Configuration' and includes three dropdown menus: '1. Population', '2. Base Year', and '3. Base Test and Subject'. A 'Submit' button is located at the bottom right of the form. The top navigation bar includes 'Search', 'Account', 'Admin', 'Contact Us', and 'Sign Out'. The bottom right corner features the SAS logo and the text 'Copyright © SAS Institute Inc. All rights reserved.'

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Base Test and Subject

# Scatterplots

SOL ELA 4-8

SOL Math 4-8

SOL Science 5 & 8

SOL EOC

The screenshot shows the SAS 'Scatterplot Report' configuration interface. On the left, a dark blue sidebar contains the text 'Base Test and Subject' at the top and four rounded rectangular buttons: 'SOL ELA 4-8', 'SOL Math 4-8', 'SOL Science 5 & 8', and 'SOL EOC'. A cyan arrow points from the 'SOL EOC' button to the '3. Base Test and Subject' dropdown menu in the configuration form. The configuration form is titled 'Configuration' and includes three dropdown menus: '1. Population', '2. Base Year', and '3. Base Test and Subject'. A 'Submit' button is located at the bottom right of the form. The top navigation bar includes 'Search', 'Account', 'Admin', 'Contact Us', and 'Sign Out'. The bottom right corner features the SAS logo and the text 'Copyright © SAS Institute Inc. All rights reserved.'

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Base Test and Subject

Configuration Tile

## Scatterplots

⚙️ Configuration

**Population**  
All schools in the state

**Base Year**  
2112

**Base Test and Subject**  
State Test Reading 8th Grade

---

**Axes Selection**

Growth vs. Achievement
▼

↔ Flip axes

**Compare by**

None

Year

Grade

Other

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## Scatterplots Deep Dive

Where are we? What are the implications?  
Follow the directions in your participant guide.

What celebrations do you see in your data? What factors might have contributed to these results?

---

What areas for improvement do you see in your data? What factors might have contributed to the results?

---

How might the trends you discovered in your data impact student success?

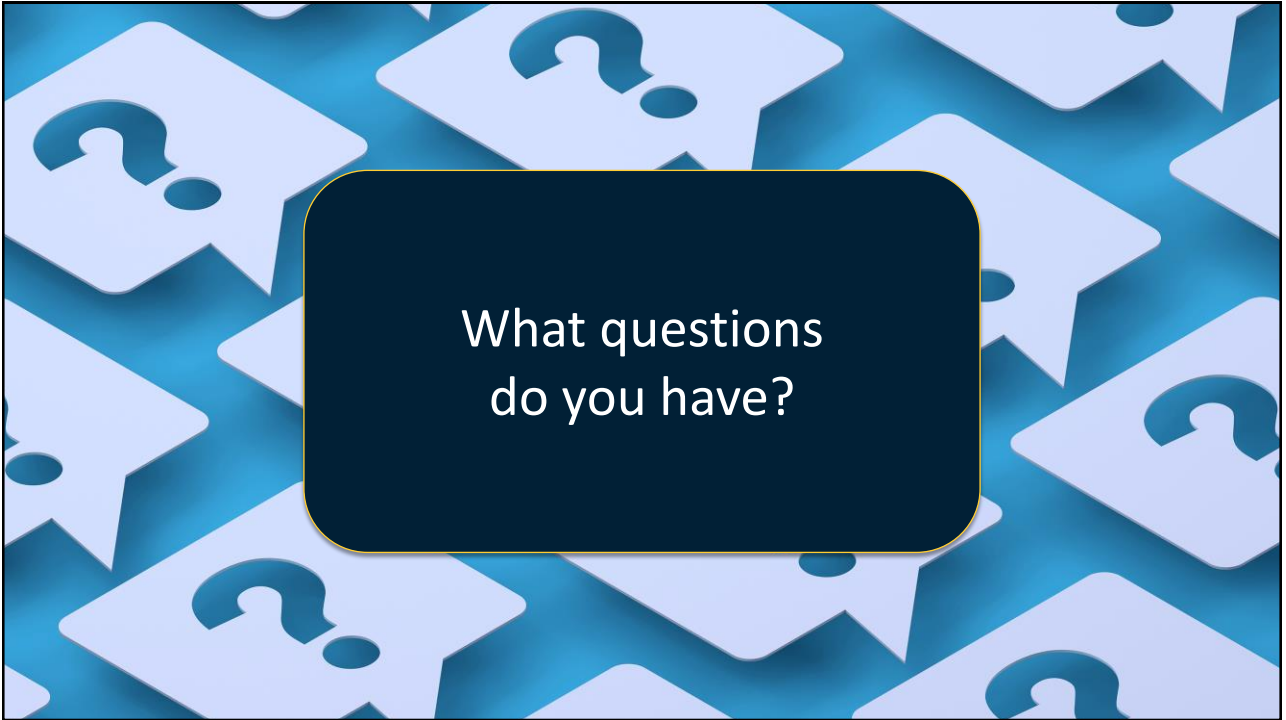
**Activity Timer:**

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## AGENDA

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- 03 GROWTH VS. ACHIEVEMENT
- 04 COLLABORATIVE PARTNERS
- 05 RESOURCES AND SURVEY

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# Exploring the Relationship

Growth and Achievement



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# My Own Data Story

Scatterplot Report

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# Navigation



Where is VVAAS?

<https://vvaas.sas.com>

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# Scatterplots Implications

## Finding Collaborative Partners

Activity Directions:

**Activity Timer:**

1. **Identify** divisions that could be potential collaborative partners for a specific test and subject.
2. **Record** the divisions in your participant guide.
3. **Locate & Record** contact information for the divisions identified.

**Scatterplots Deep Dive – Finding Collaborative Partners**

Directions: Using the VVAAS results file, identify divisions that could be potential collaborative partners for specific test and subject. Record this information in your participant guide. Using a search engine, locate and record contact information for the divisions identified.

Test & Subject	Division	Contact Information

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## Let's Dialogue About Data

Choose a sentence frame and process with your partner.

1

While exploring \_\_\_\_\_, I discovered \_\_\_\_\_.

2

Based on our exploration, I believe \_\_\_\_\_.

3

Something I need to consider moving forward is \_\_\_\_\_.

4

My next steps will include \_\_\_\_\_.

Activity Timer:



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What questions  
do you have?

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# AGENDA

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- 05 RESOURCES AND SURVEY


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## Help!

### Options for Additional Information




Search Account Admin Contact Us Sign Out

Reports Print Export e-Learning ? Help

### Neighborhood School District

What are your trends in growth and achievement?

This report enables you to select data of interest, assess trends over time, and compare results. Use the filters on the left to explore your growth and achievement data. Depending on the assessment, achievement is reported in Normal Curve Equivalents (NCEs) or scale scores and does not reflect proficiency level.



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# Help!

## Options for Additional Information



The screenshot shows a web interface with a top navigation bar containing 'Search', 'Account', 'Admin', 'Contact Us', and 'Sign Out'. Below this is a secondary bar with 'Print', 'Export', 'e-Learning', and 'Help'. The main content area is titled 'Neighborhood School District' and includes a sidebar with filters for 'Districts and Schools' (set to 'Neighborhood School District'), 'Value-Added', and 'Diagnostics'. The main text asks 'What are your trends in growth and achievement?' and provides a brief description of the report's capabilities.



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### Your Feedback Matters



<https://bit.ly/VCACC>

## You are the real superheroes.

Thank you for your continued commitment to improving teaching and learning for all.



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