



# Growth versus Achievement

# Achievement

is like a snapshot.

Achievement measures student performance, relative to a standard, at one point in time.

# Growth

is like time-elapsed photography.

Growth measures how student performance changes, relative to a standard, between at least two points in time.

<b>Achievement</b>		<b>Growth</b>
How students compare to a standard	<b>What is being measured?</b>	How much students have learned over time
one assessment	<b>How many assessments are needed to measure?</b>	Two or more parallel assessments (i.e. Form A and Form B)
after Form A or any other assessment	<b>When are reports available?</b>	after Form B or a Pre-Post Short Cycle Web Assessment
Scaled Score Percent Scores NCEs (like percentiles) Performance Rating	<b>Pro-Core Measure</b>	<u>Change in Scaled Scores</u> <u>Change in Percent Scores</u> <u>Change in NCEs</u> Growth Ratings
Assessment Result Standards Detail Report Student Report Card	<b>Common Reports</b>	Class Growth Report Class Progress Report (Growth) Pre-Post SCWA



<b>Achievement</b>	<p><b>High Achievement Low Growth</b></p> <p>Form A: 610 Advanced <b>Form C: 605 Advanced</b> Change in Scaled Score = -5 <b>Growth Rating: 1 Below Average</b></p>	<p><b>High Achievement High Growth</b></p> <p>Form A: 470 Basic <b>Form C: 605 Advanced</b> Change in Scaled Score = +130 <b>Growth Rating: 5 Exceptional</b></p>
	<p><b>Low Achievement Low Growth</b></p> <p>Form A: 420 Limited <b>Form C: 415 Limited</b> Change in Scaled Score = -5 <b>Growth Rating = 1 Below Average</b></p>	<p><b>Low Achievement High Growth</b></p> <p>Form A: 392 Limited <b>Form C: 469 Limited +</b> Change in Scaled Score = +77 <b>Growth Rating = 5 Exceptional</b></p>
	<b>Growth</b>	

# Pro-Core Reports that Show Growth



# Class Growth Report



# Class Growth Report

- **Based on NCEs (similar to percentiles) and Standard Deviations**
- **Scaled scores show students have grown from Form A to Form C**
- **Growth is found from the difference in NCEs**

$$\Delta NCE = (NCE_{\text{Form C}} - NCE_{\text{Form A}})$$

$$\Delta NCE = (NCE_{\text{FormC}} - NCE_{\text{FormA}})$$

- **Zero  $\Delta NCE$** 
  - ❖ **NCE was constant over the year**
  - ❖ **Average Growth**
- **Positive  $\Delta NCE$** 
  - ❖ **NCE has increased over the year**
  - ❖ **Above Average Growth**
- **Negative  $\Delta NCE$** 
  - ❖ **NCE has decreased over the year**
  - ❖ **Below Average Growth**





# Growth Ratings from $\Delta$ NCEs

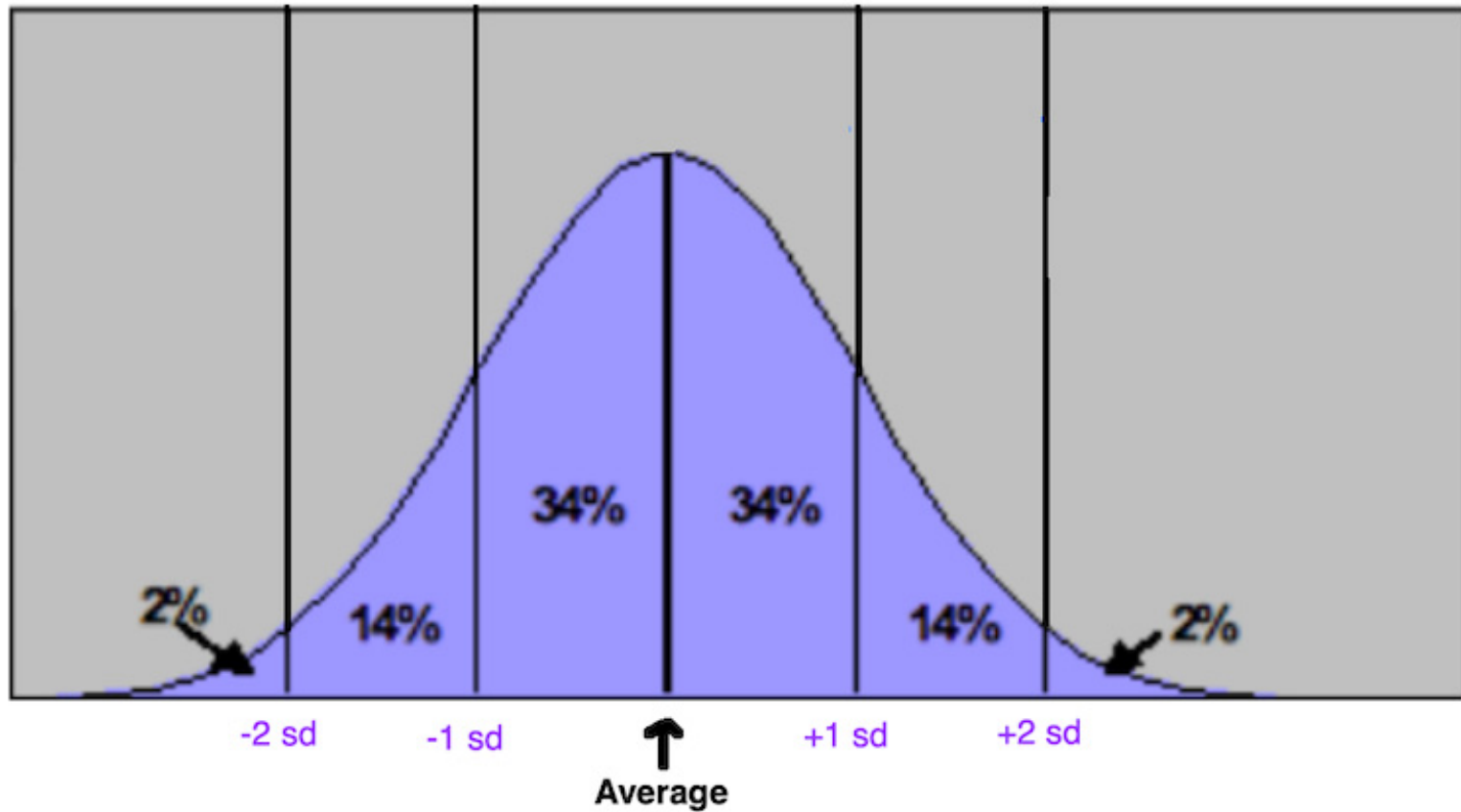
- A bank of  $\Delta$ NCE scores is used to determine growth ratings. The bank includes:
  - Prior year  $\Delta$ NCE scores from all students in a subject
  - Current year  $\Delta$ NCE scores from your district's students in a subject
- Ratings may change if as more students take a subject test from your district
- It is recommended districts release these ratings only after all students have tested.



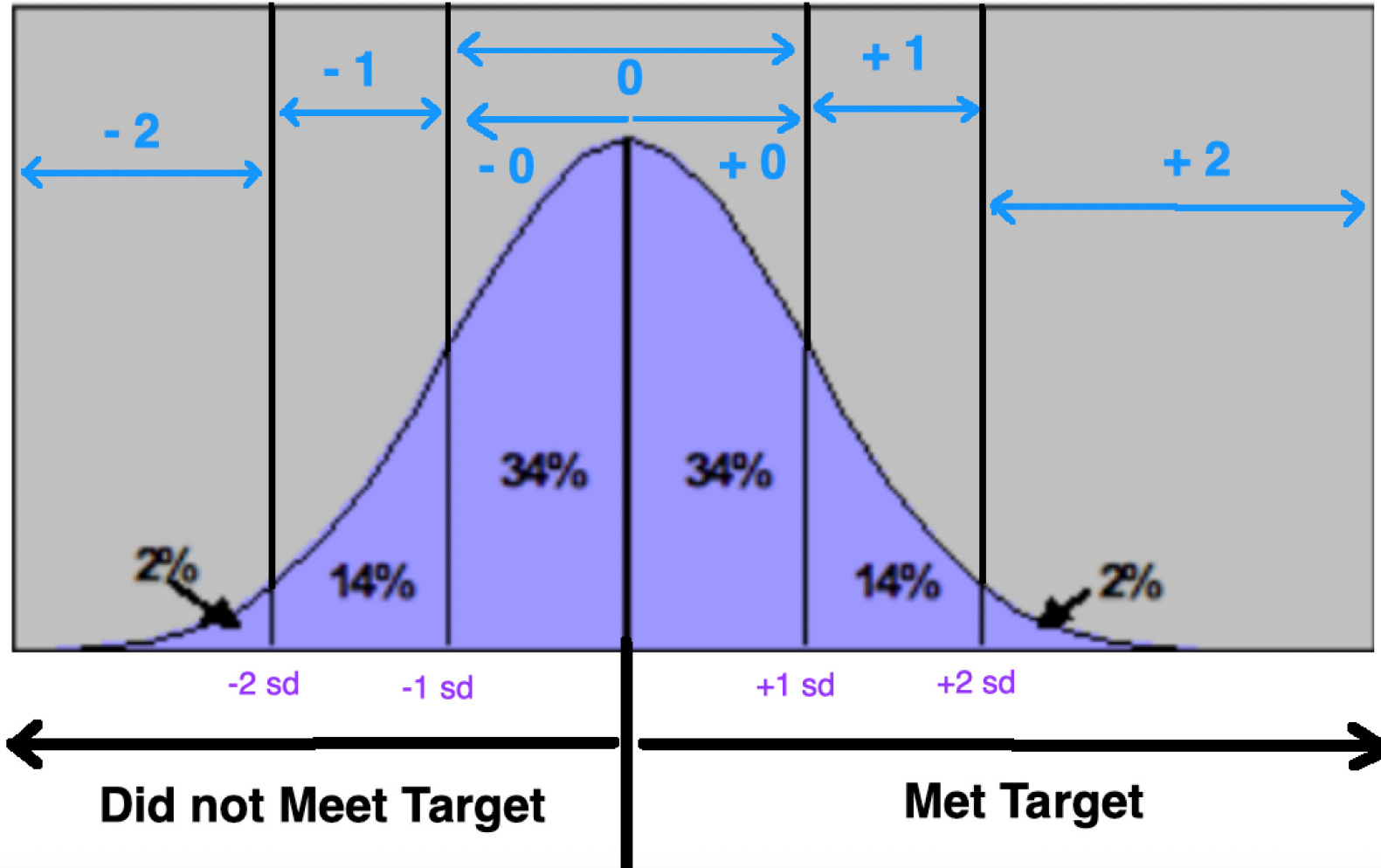
# Growth Ratings from $\Delta$ NCEs

- Analysis of this bank of  $\Delta$ NCE scores is used to determine
  - The average  $\Delta$ NCE
  - The standard deviation from the data
- The next slides graphically show how these values are used to determine the growth ratings.

## Standard Distribution of Traits

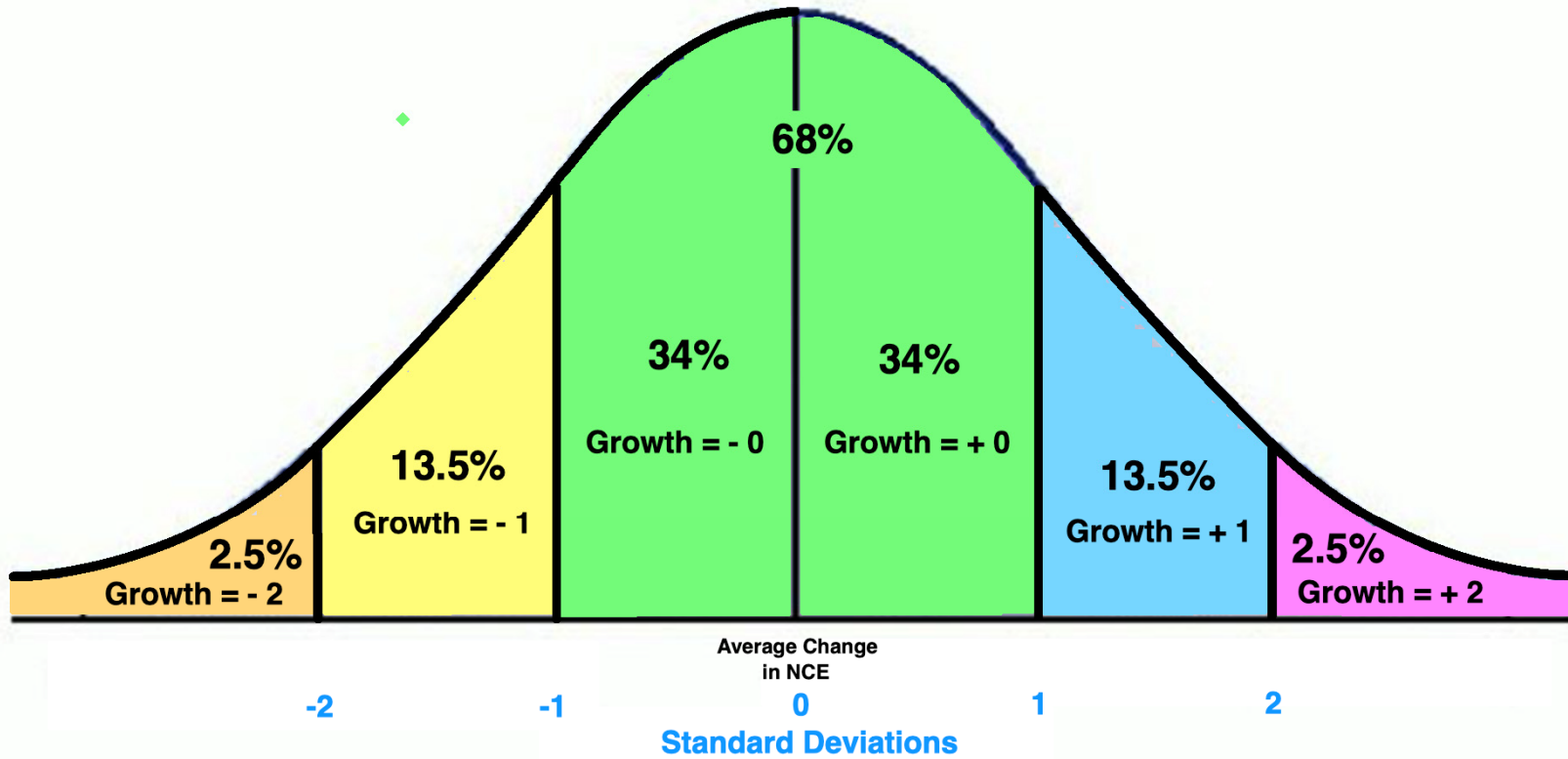


# Student Growth





## Growth from Change in NCE





# Class Progress Report



# Class Progress Report

- **Based on Scaled Scores**
- **Growth is found from the difference in Scaled Scores (SS)**

$$\Delta SS = (SS_{\text{FormC}} - SS_{\text{FormA}})$$

- **Any positive  $\Delta SS$  shows growth for the period**
- **A negative  $\Delta SS$  is possible, but not desirable.**



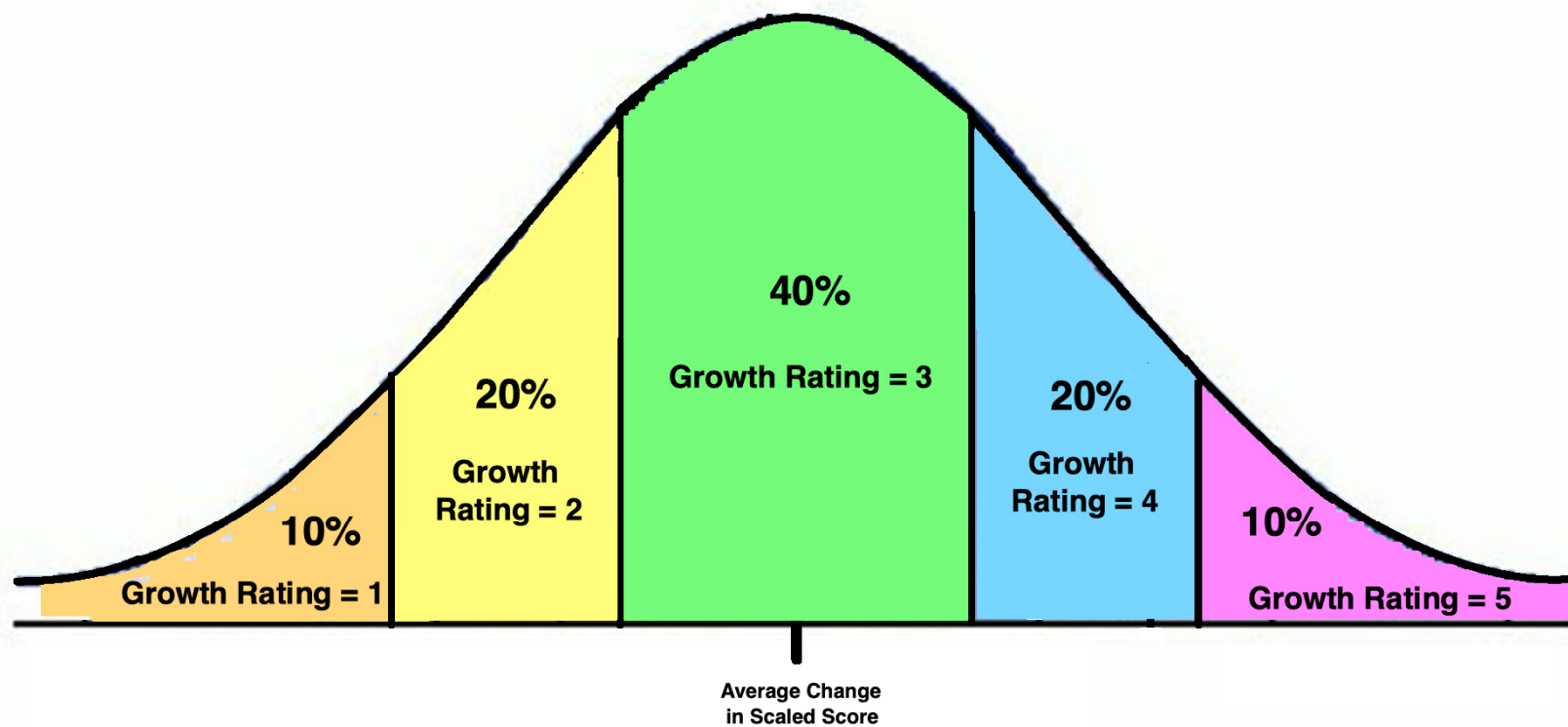
# Growth Ratings from Change in Scaled Scores ( $\Delta SS$ )

- A bank of  $\Delta SS$  values is used to determine growth ratings. The bank includes:
  - Prior year  $\Delta NCE$  scores from all students in a subject
- Ratings will not change if as more students take a subject test from your district
- Districts can release these ratings at any time of the year.





## Growth Rating by Change in Scaled Score



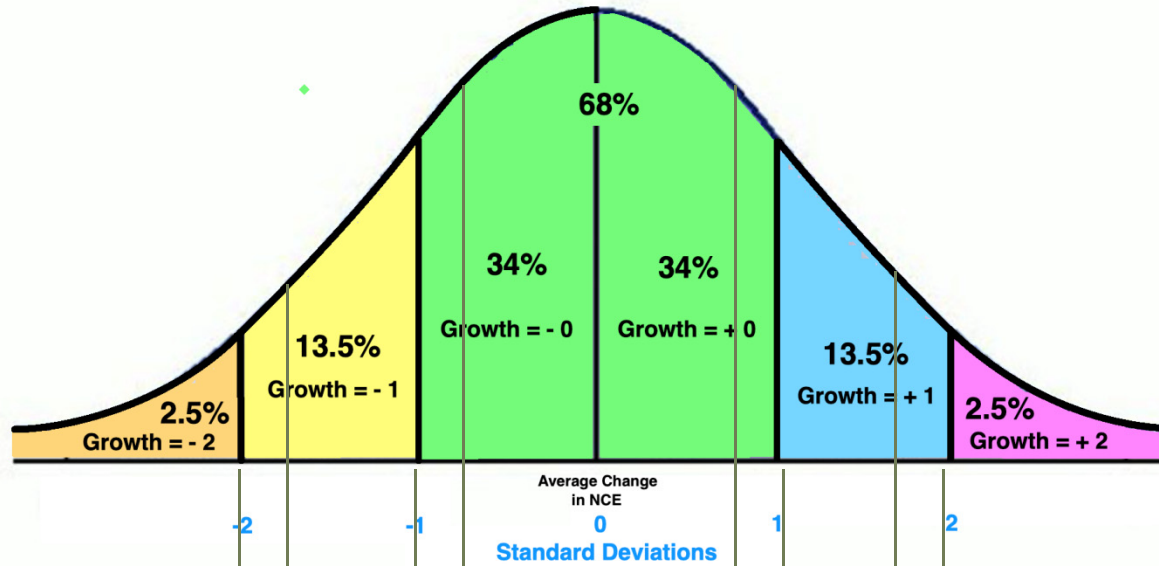
# Which Growth Measure Should We Use?

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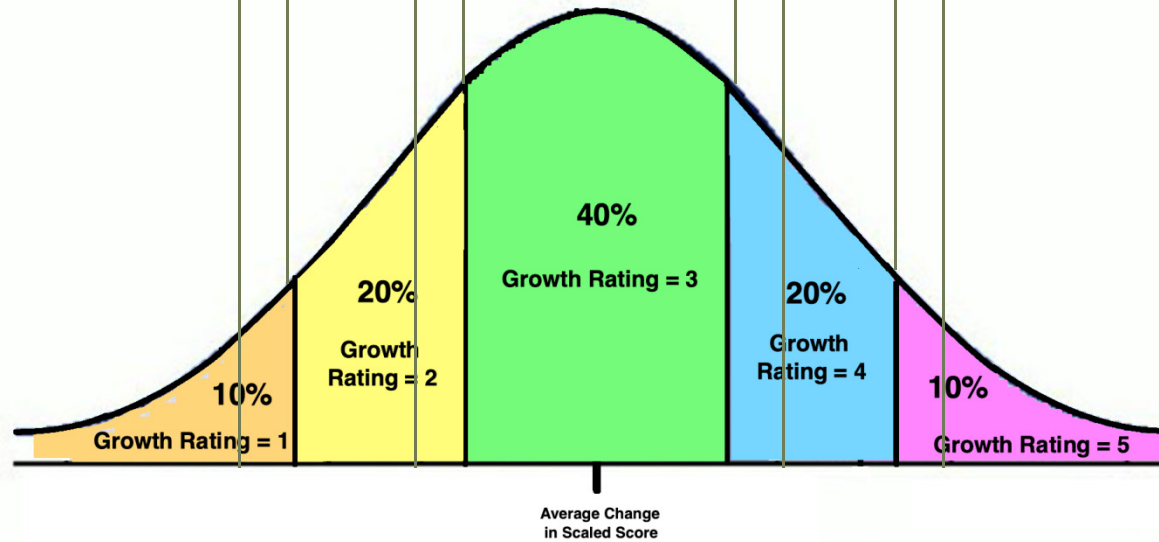
- **This is a choice for District Administrators.**
- **What are your plans for the data and capacity for interventions?**
- **The next few slides summarize the differences.**



### Growth from Change in NCE



### Growth Rating by Change in Scaled Score





<b>from NCE</b>	<b>Growth Rating</b>	<b>from Scaled Scores</b>
<b>Class Growth Report</b>	<b>Report</b>	<b>Class Progress Report</b>
<b>all students from prior year plus district students from current year</b>	<b>Student Data Used to Build Model</b>	<b>all engaged students from prior year for each test</b>
<b>after all district students have taken the test</b>	<b>Optimal Time to Release Report</b>	<b>anytime</b>
<b>2.5 % of Students Rating = - 2</b>	<b>Below Average Growth</b>	<b>10 % of Students Rating = 1</b>
<b>13.5 % of Students Rating = - 1</b>	<b>Approaching Average Growth</b>	<b>20 % of Students Rating = 2</b>
<b>68 % of Students Rating = - 0/+ 0</b>	<b>Average Growth</b>	<b>40 % of Students Rating = 3</b>
<b>13.5 % of Students Rating = + 1</b>	<b>Above Average Growth</b>	<b>20 % of Students Rating = 4</b>
<b>2.5 % of Students Rating = + 2</b>	<b>Exceptional Growth</b>	<b>10 % of Students Rating = 5</b>

# Where can I get help later?

**Go to**

<https://pro-core.us>

Click on "Support Resources"

Then click on  
"User Manuals"

## WELCOME to Pro-Core

### ODE APPROVED VENDOR 2020-21

Pro-Core has been approved for the next 5 years by the Ohio Department of Education as a High Quality Student Data (HQSD) system **having 98-100% alignment with the ODE Curriculum** in grades 2-12. We are approved in 18 subjects, the highest of any other vendor on the Ohio Approved Vendor List. Pro-Core is also approved as a Growth Measure for Teacher and Principal Evaluation. As a result, Pro-Core can provide two evidence-based measures to verify Teacher Effectiveness which will be required in 2020 per Ohio HB 216.



1 of 5

Home

Contact Us

6.0 Login: New Tech Enhanced

## Four Subjects, One System

Pro-Core stands out from other systems by providing *focused* learning, standards-based assessments.

- ★ Social studies, science, reading, mathematics (2-12)
- ★ Diagnostic pre-tests, interim, and end-of-course post-tests





**PRO-CORE**  
Overview

**AFFORDABLE**  
Pricing Plan

**REPORTING**  
HQSD

**SUPPORT**  
Resources

**SUCCESSSES**  
What Educators Say

# User Manuals

Home » Support » User Manuals

FAQ

Troubleshooting

Content Standards

Test Blueprints

Correlations

User Manuals

Test Resources

Form Test Timing

Performance Level Ranges

## Pro-Core System User Manuals

Now contains information for *Clever.com* users.

Pro-Core: Online Assessments User Manual

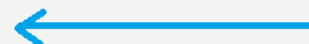
- **Complete User Manual for the Pro-Core Online System [10mb]**

- View/download individual sections of the manual below:

- A. Pro-core Procedures Checklist and Section References
- \*UPDATED\*** ◦ B. *Required* District Enrollment/Confirmation Form
- \*NEW\*** ◦ C. Clever Users Set-up and Validation Instructions
- D. Enrollment Data File Preparation [*non-Clever*]
- E. District Administrator Log-in & Enrollment [*non-Clever*]
- F. District Administrator Enrollment Editing [*non-Clever*]
- G. District Admin Security Settings and Test Enabling
- **H. District Administrator Reports**
- I. Principal/School Administrator Log-in & Editing [*non-Clever*]
- J. Principal/School Admin Test Enabling & Security Settings
- **K. Principal/School Administrator Reports**
- L. Teacher Log-in, Procedures, & Online Assessments
- **M. Teacher Reports**
- N. Teacher Personalized Assessments (TPAs)
- O. Five-Tier Writing Assessments (5TW)
- P. Student Log-in & Assessment Procedures
- Appendices

**Explanations for Teachers**

**Explanations for Administrators**





# Questions?

# More Questions?

Please contact me

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OR

Visit our manual and website

<https://pro-core.us>