



## Testing 1-2-3 Website Overview

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**Ten  
Minnesota  
Commitments  
to Equity**

- 1. Prioritize equity.**
- 2. Start from within.**
- 3. Measure what matters.**
- 4. Go local.**
- 5. Follow the money.**
- 6. Start early.**
- 7. Monitor implementation of standards.**
- 8. Value people.**
- 9. Improve conditions for learning.**
- 10. Give students options.**

# Presentation Outline

The screenshot shows the 'Testing 123' website header with the Minnesota Department of Education logo. The main navigation bar includes 'Plan and Teach', '1. Assess', '2. Analyze', '3. Take Action', and 'Get Involved'. A central circular diagram illustrates the 'Testing 1, 2, 3' cycle: 1. Assess (document icon), 2. Analyze (person with chart icon), and 3. Take Action (person with checkmark icon). Below the diagram is a progress bar with three segments: '1. Assess' (highlighted in green), '2. Analyze', and '3. Take Action'. A text box on the left describes the resource as a tool for teachers to use data to eliminate learning barriers.

**TESTING 123**  
Test data in the classroom: Assessing, analyzing and taking action

mi DEPARTMENT OF EDUCATION

Glossary | Search

Plan and Teach ▾ 1. Assess ▾ 2. Analyze ▾ 3. Take Action ▾ Get Involved ▾

**Testing 1, 2, 3: A Resource for Teachers**  
*Educators empowered with reliable data use it to eliminate learning barriers and evaluate classroom instruction. This website is an effort to provide teachers with relevant assessment and data resources that support an equitable learning environment where all students can achieve at high levels.*

1. Assess  
2. Analyze  
3. Take Action

1. Assess  
2. Analyze  
3. Take Action

1. Introduction and background
2. Assessment and Data Literacy Overview
3. Website Resources
4. Teacher involvement opportunities

[Testing123.education.mn.us](https://Testing123.education.mn.us)

# Data Quality Campaign Policy Brief - 2014

- States must do more to promote data literacy among teachers.
- States should do this by:
  1. Promoting data use skills
  2. Ensuring ease of access to data
  3. Adopting a common language around data literacy

- *The Data Quality Campaign: [Teacher Data Literacy: It's About Time](#), 2014*

# Why is data and assessment literacy important?

- Many teachers report feeling overwhelmed with data, rather than empowered by data as a tool for improving instruction and outcomes for students.
- There is an urgent need to support teacher data literacy through state support.
- Without it, data will continue to be a burden to teachers rather than a powerful tool for effective teaching.

- *The Data Quality Campaign: [Teacher Data Literacy: It's About Time](#), 2014*



# School and District Leadership

- School and district leaders who support student learning goals also need to feel confident in their ability to collect, analyze, and use data.
- Many Minnesota school districts act as data champions for teachers by:
  - demonstrating the value and use of data
  - leading a data-driven, collaborative culture
  - supporting teachers in overcoming barriers to effective data use, like limited time during the day
- District and school leaders are critical for creating practices such as professional learning communities, that lead to a culture of effective data use.

# Background for State Testing Outreach

- 2016 – Implementation began of a federal grant (SLDS) to help build data use capacity among districts
- March 2016 – OLA evaluation of standardized testing in Minnesota
- June 2016 – MDE State Testing Division hired an Outreach Specialist
- March 2017 – OLA Report released
  - Part of OLA's Recommendation: MDE should further increase outreach and support to school districts and charter schools regarding the interpretation and use of test scores.

# Background for Website

- 2017 Winter – Focus Groups started to gather initial input from educators
- 2017 Spring and Summer – First draft of Testing 1,2,3 Website
- 2018 – Second round of teacher focus groups
- 2019 Winter – New outreach specialist hired
- 2019 Spring – website redesign using feedback from teachers and admin
- 2019 Summer – Website redesign and launch!



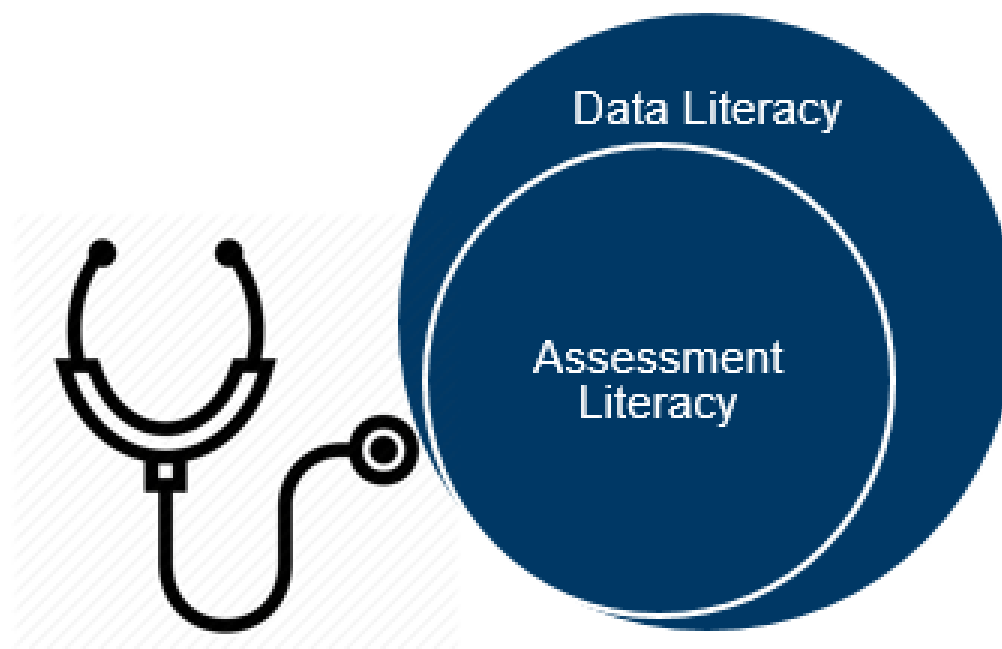
# Purpose of Testing 1-2-3 Website

1. Promote teacher data use skills related to assessment of student learning
  - Outreach and support to school districts and charter schools regarding the interpretation and use of test scores.
2. Provide easier access to data and assessment resources from state testing that are specific to teachers
3. Increase teacher involvement with State Testing Division at MDE

# Assessment and Data Literacy Overview

# Assessment Literacy

- Assessment literate educators know **how**, **when**, and **why** to assess student learning.
- Assessment literate educators design and/or choose a variety of assessments that are able to elicit evidence of student mastery of the Minnesota Academic Standards.



# Formative and Summative

## Formative Assessment:

...takes place at different times  
**DURING** instruction.

(assessment **for** learning)

## Summative Assessment:

...takes place **AFTER**  
instruction.

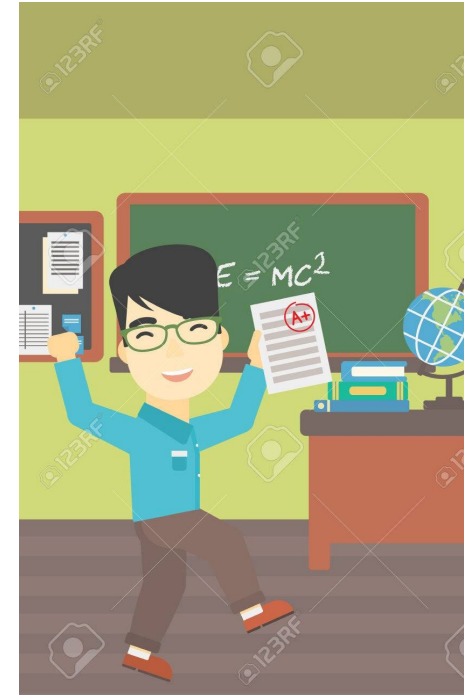
(assessment **of** learning)

# A Comparison of Assessment Types

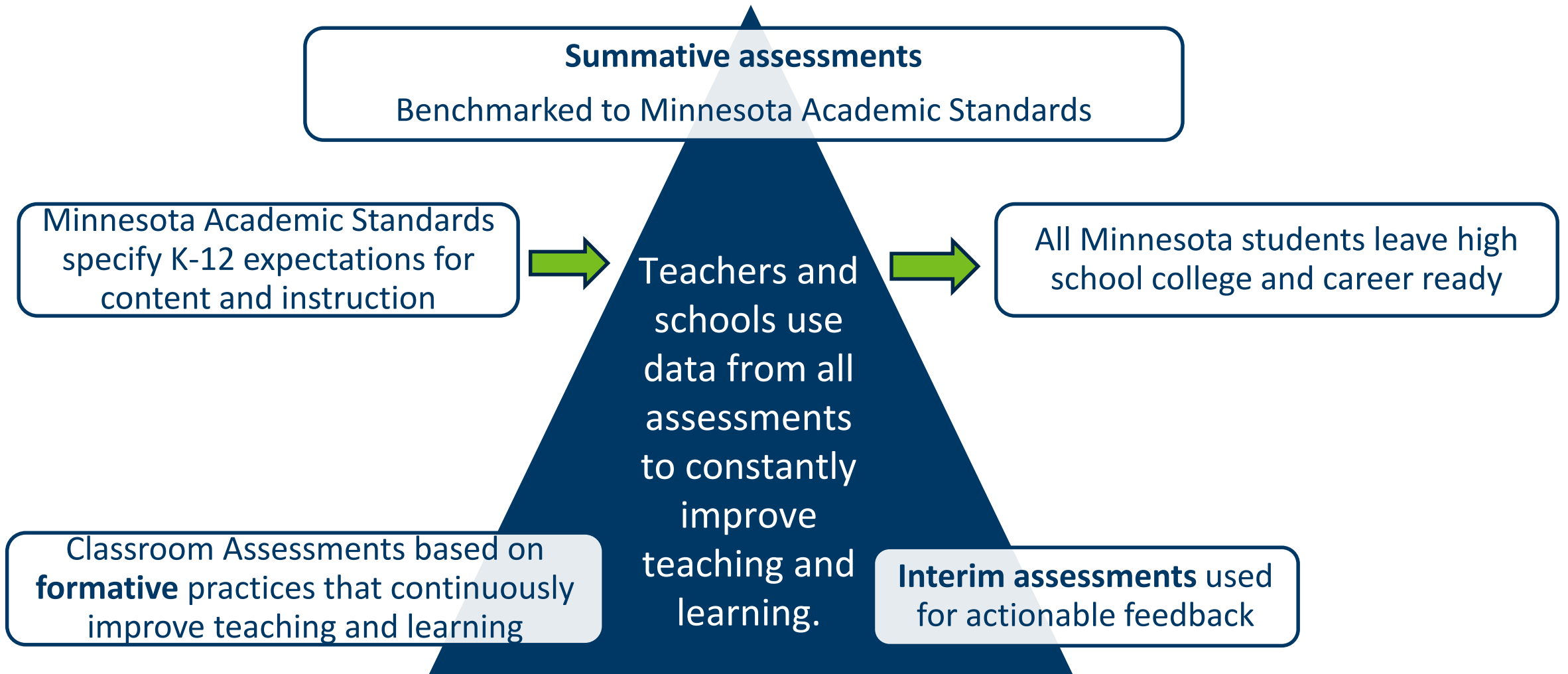
Type	Examples & Frequency	Evidence Produced	Level of Impact	Used by
<b>Formative</b>	<ul style="list-style-type: none"> <li>Daily Checks for Understanding</li> <li>Weekly Quizzes</li> </ul>	<ul style="list-style-type: none"> <li>Lesson sized learning targets</li> <li>Retained learning across lessons and achievement level</li> </ul>	Used to make immediate decisions about what students currently know, and where to go next	Students and teachers in classroom
<b>Interim</b>	Midterm Exams that occur 2-3 times per year	Cumulative, longer-term learning retention	Evaluate curriculum effectiveness and used for macro-level planning	<ul style="list-style-type: none"> <li>Groups of Teachers</li> <li>School Leaders</li> </ul>
<b>Summative</b>	<ul style="list-style-type: none"> <li>Unit Tests or Performance Tasks</li> <li>State Tests (MCA)</li> </ul>	Proficiency of learning compared to the Minnesota Academic Standards and Achievement Level Descriptors	Used for accountability and evaluation of curriculum in regards to the standards	<ul style="list-style-type: none"> <li>Groups of Teachers</li> <li>School, District Leaders</li> <li>Policy Makers</li> </ul>

# Student Centered Assessment Systems

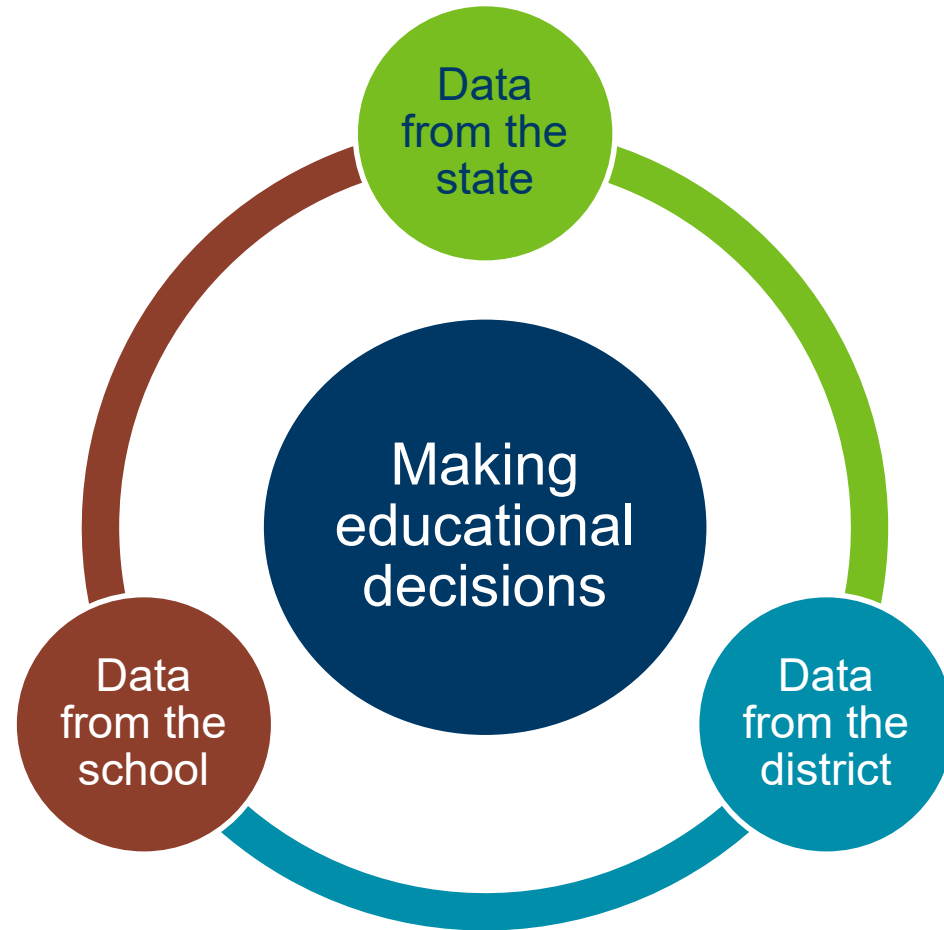
- Assessment systems, when implemented effectively, can cause students to learn, not just simply measure student performance.
  - Stiggins and Chappuis, *Theory into Practice (2005)*
- When students see evidence of their success on classroom formative assessments, they can watch themselves grow as learners. This cannot come from MCA results which are too infrequent.
- If students track their progress on learning goals aligned to Benchmarks and ALDs, they gain a better sense of control and confidence in their own learning.



# Comprehensive and Balanced Assessment System



# Minnesota Assessment Data: One Component





# Data Literacy

Data literate educators **continuously, effectively, and ethically access, interpret, act on, and communicate multiple types of data** from state, local, classroom, and other sources in order to **improve outcomes for students** in a manner appropriate to their professional roles and responsibilities.

- *The Data Quality Campaign: [Teacher Data Literacy: It's About Time](#), 2014*



## Minnesota Assessments

Standards-Based  
Accountability Assessments

English Language Proficiency  
Accountability Assessments

**MCA**

**MTAS**

**ACCESS for  
ELLs**

**Alternate  
ACCESS for  
ELLs**

# Purposes of Minnesota Assessments

- To measure achievement
- To measure academic progress

# Minnesota Assessments: Aligned to Standards

Test Names	Standards	Year Adopted
MCA and MTAS	Minnesota K–12 Academic Standards in English Language Arts	2010
	Minnesota K–12 Academic Standards in Mathematics	2007
	Minnesota K–12 Academic Standards in Science	2009
ACCESS and Alternate ACCESS for ELLS	WIDA English Language Development Standards	2011

# Website Resources

# Testing 1-2-3: New look!

## TESTING 123

Test data in the classroom: Assessing, analyzing and taking action

**mn** DEPARTMENT OF EDUCATION

Glossary |

Search

Plan and Teach ▾

1. Assess ▾

2. Analyze ▾

3. Take Action ▾

Get Involved ▾

### Testing 1, 2, 3: A Resource for Teachers

*Educators empowered with reliable data use it to eliminate learning barriers and evaluate classroom instruction. This website is an effort to provide teachers with relevant assessment and data resources that support an equitable learning environment where all students can achieve at high levels.*



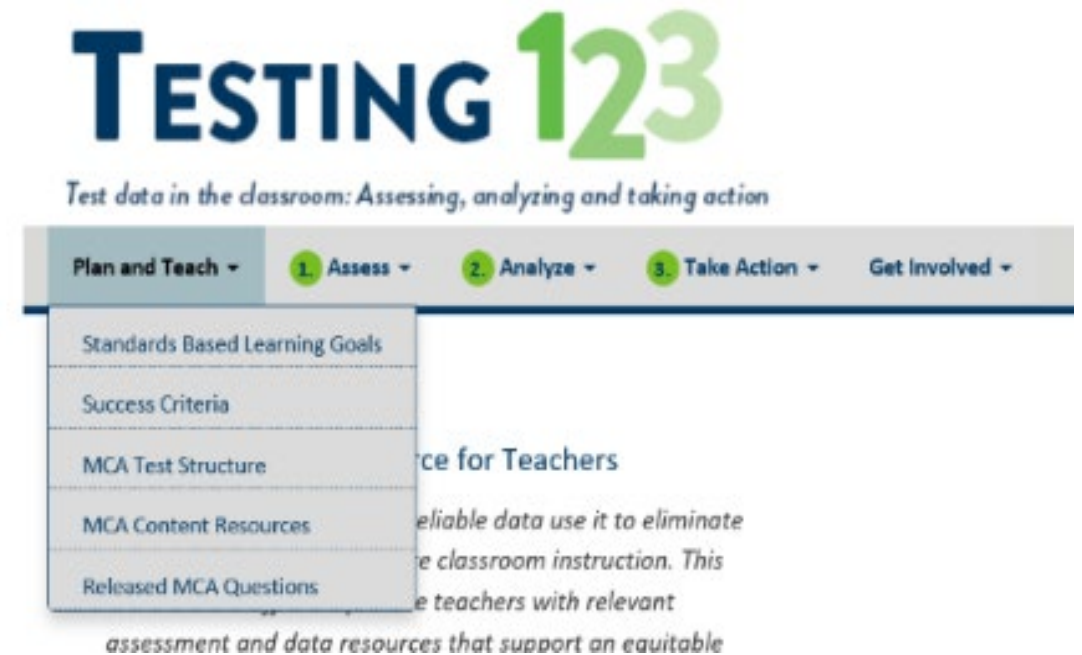
1. Assess

2. Analyze

3. Take Action

# Plan and Teach Resources

- Standards Based Learning Goals
- Success Criteria
- MCA Test Structure – by subject
- MCA Content Resources – by subject
- Released MCA Questions from Past Exams



# Standards Based Learning Goals

- Daily learning goals should be aligned to the Minnesota Academic Standards, and communicated directly to students.
- A student centered assessment system instills a growth mindset, and helps students engage in their own learning.

Learning Targets	Clear	Not Clear
1. I can identify the main idea in fiction and non-fiction text.	✓	
2. I can identify the concepts associated with culture.		✓
3. I can sort and classify objects using one attribute.	✓	
4. I can compare the functions of carbohydrates and proteins.	✓	
5. I can study the characteristics of sea creatures.		✓
6. I can identify parallel and perpendicular lines.	✓	



# Success Criteria

- Assessments must accurately reflect clearly specified and appropriate achievement expectations.
- Teachers “unpack” Minnesota Academic Standards and translate them into Learning Targets that articulate what mastery looks like
- Use Achievement Level Descriptor (ALD) resources to analyze depth and breadth of curriculum

<https://testing123.education.mn.gov/test/plan/success/> > ALDs

The screenshot shows the Minnesota Department of Education's page on Achievement Level Descriptors. It includes the department's logo, the title 'Understanding Statewide Testing Resources: Achievement Level Descriptors', and a section titled 'Purpose' which explains that MCAs assess students' knowledge, skills, and abilities in reading, mathematics, and science. It lists four achievement levels: Does Not Meet the Standards, Partially Meets the Standards, Meets the Standards, and Exceeds the Standards. Below this is a section titled 'Application' which states that educators and parents can refer to the ALDs for descriptions of grade-level student performance.

Does Not Meet the Standards	Partially Meets the Standards	Meets the Standards	Exceeds the Standards
Students at this level succeed at few of the most fundamental skills for the Minnesota K-12 Academic Standards.	Students at this level partially meet the subject's skills for the Minnesota K-12 Academic Standards.	Students at this level meet the subject's skills for the Minnesota K-12 Academic Standards.	Students at this level exceed the subject's skills for the Minnesota K-12 Academic Standards.

# Success Criteria (2)

<https://testing123.education.mn.gov/test/plan/success/> > ALDs



## High School Science MCA-III Achievement Level Descriptors

These are supplementary materials to the Science MCA Achievement Level Descriptors. The overview for the MCA Achievement Level Descriptors and how to interpret them are on the MDE website at MDE > Districts, Schools and Educators > Statewide Testing > Achievement Level Descriptors.

Strand	Does Not Meet Students at this level of science succeed at few of the most fundamental science skills of the Minnesota Academic Standards. Some of the skills demonstrated may include:	Partially Meets Students at this level of science partially meet the science skills of the Minnesota Academic Standards. Some of the skills demonstrated may include:	Meets Students at this level of science meet the science skills of the Minnesota Academic Standards. Some of the skills demonstrated may include:	Exceeds Students at this level of science exceed the science skills of the Minnesota Academic Standards. Some of the skills demonstrated very consistently may include:
Nature of Science and Engineering	<ul style="list-style-type: none"> <li>• Determines the appropriate safety procedures for a scientific investigation</li> <li>• Understands what a hypothesis is</li> <li>• Identifies the benefits of using scientific models</li> </ul>	<ul style="list-style-type: none"> <li>• Identifies sources of error in an investigation</li> <li>• Understands that engineering designs are continually checked so that they can be improved</li> <li>• Recognizes that scientific knowledge occurs in steps that build on prior knowledge</li> <li>• Selects appropriate graphical representations to communicate results</li> <li>• Identifies a scientific hypothesis</li> </ul>	<ul style="list-style-type: none"> <li>• Describes how changes in scientific knowledge usually builds on earlier knowledge</li> <li>• Explains how bias might influence how research is done and the interpretation of data</li> <li>• Recognizes that risk analysis is used to evaluate consequences of an engineered solution</li> <li>• Evaluates possible solutions to an engineering problem at a local and regional level</li> <li>• Uses appropriate numeric, or graphical representations to communicate a scientific idea</li> <li>• Suggests ways to improve data collection</li> <li>• Designs and conducts an experiment to test a hypothesis</li> </ul>	<ul style="list-style-type: none"> <li>• Formulates a hypothesis and conducts an experiment to test this hypothesis</li> <li>• Supports a conclusion with evidence from the investigation</li> <li>• Develops possible solutions to an engineering problem in a global context</li> </ul>
Life Science	<ul style="list-style-type: none"> <li>• Understands that photosynthesis converts light energy into chemical energy</li> <li>• Identifies how competition for resources affects population growth</li> <li>• Recognizes the primary function of DNA</li> <li>• Identifies how air quality affects personal health</li> </ul>	<ul style="list-style-type: none"> <li>• Uses words to describe the process of photosynthesis</li> <li>• Identifies DNA, genes and chromosomes</li> <li>• Matches base pairs of DNA</li> <li>• Recognizes characteristics of sexual and asexual reproduction</li> <li>• Recognizes that genetic variation is essential for natural selection to occur</li> <li>• Identifies the ecological risks and benefits of changing a natural ecosystem by human activity</li> <li>• Identifies inputs and expected outputs of simple natural and designed systems</li> </ul>	<ul style="list-style-type: none"> <li>• Explains how cell parts and processes respond to environmental factors and their functions in respiration, reproduction and photosynthesis</li> <li>• Identifies primary functions of some biological molecules</li> <li>• Describes the role of DNA and RNA in assembling protein molecules</li> <li>• Recognizes how internal and external factors affect biological systems</li> <li>• Explains how energy is transferred among organisms in an ecosystem</li> <li>• Uses equations to differentiate between photosynthesis and respiration</li> <li>• Uses Mendel's laws of segregation and independent assortment</li> </ul>	<ul style="list-style-type: none"> <li>• Recognizes structures of biological molecules</li> <li>• Describes and differentiates between the processes of replication, transcription and translation of nucleic acids</li> <li>• Understands the consequences of human activity on living organisms and ecosystems</li> <li>• Describes matter transformations and the dissipation of energy as heat in a natural ecosystem</li> </ul>

# MCA Test Structure

- Subject and grade level specific Documents
- Created from Test Specs and Test Blueprint

The screenshot shows the TESTING 123 website interface. The navigation menu includes 'Plan and Teach', '1 Assess', '2 Analyze', '3 Take Action', and 'Get Involved'. A dropdown menu is open under 'Assess', with 'MCA Content Resources' highlighted. The main content area is titled 'MCA Content Resources' and includes a video player for 'Family, School and Community Engagement Website Modules Orientation Webinar'. Below the video are three expandable sections: '+ Science MCA-III Details', '+ Mathematics MCA-III Details', and '+ MCA-III Item Details'.

Grade Level Assessment Details

Reading	Mathematics	Science
<a href="#">Grade 3</a>	<a href="#">Grade 3</a>	N/A
<a href="#">Grade 4</a>	<a href="#">Grade 4</a>	N/A
<a href="#">Grade 5</a>	<a href="#">Grade 5</a>	<a href="#">Grade 5</a>
<a href="#">Grade 6</a>	<a href="#">Grade 6</a>	N/A
<a href="#">Grade 7</a>	<a href="#">Grade 7</a>	N/A
<a href="#">Grade 8</a>	<a href="#">Grade 8</a>	<a href="#">Grade 8</a>

# MCA Test Structure (2)

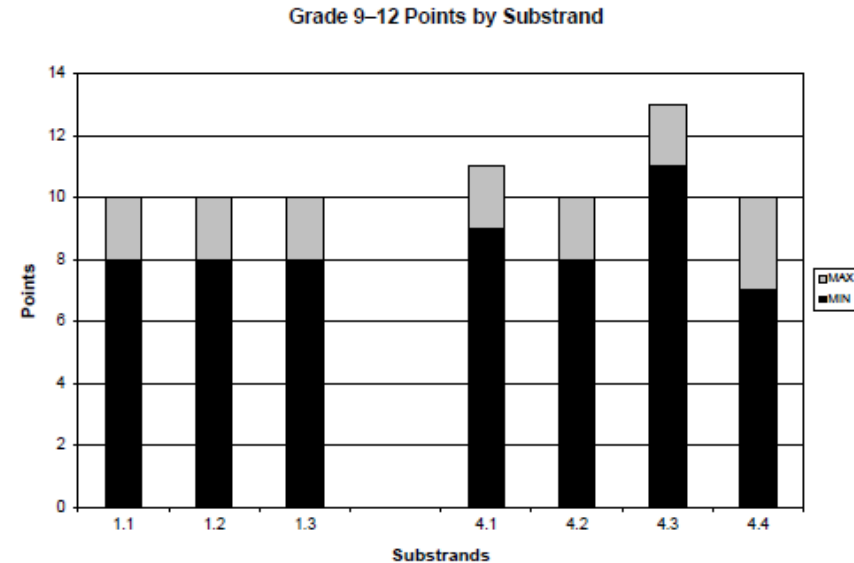
- Useful for planning Scope & Sequence, Pacing Calendars, improving curriculum alignment, etc.
- Caution: This is only *one* resource to help with pacing

<https://testing123.education.mn.gov/test/plan/res/index.htm>

Grade 9-12 Science MCA-III (Operational Form)

Strand	Approximate Number of Points	Approximate Percent of Points
Nature of Science and Engineering (NSE)	24-28	38
Life Science (LS)	40-44	62
Total	68	100

Points by Substrand



# Released Items and Passage Sets (1)

The screenshot shows the Minnesota Department of Education website. The navigation menu is open, and the following items are listed:

- Dropout Prevention/At-Risk Students
- Early Childhood Special Education (ECSE)
- Early Learning
- Every Student Succeeds Act (ESSA)
- Elementary and Secondary Education Act (ESEA)/Federal Title Programs
- English Learner Education
- Ensuring Safe and Supportive Schools
- Gifted Education
- Graduation Requirements
- Indian Education
- Kindergarten
- Learning Time Options
- Online Learning Providers
- Outreach and Data Interpretation
- Reading Proficiency
- School Technology
- Section 504
- Special Education
- Statewide Testing
- Student Discipline

Red arrows and numbers indicate the navigation path:

- 1: Points to the 'Districts, Schools and Educators' menu item.
- 2: Points to the 'Teaching and Learning' sub-menu item.
- 3: Points to the 'Released Items and Passage Sets' link in the sub-menu.

## [Released Items and Passage Sets](#)

# Released Items and Passage Sets (2)

The screenshot shows the Minnesota Department of Education website. At the top is the logo with 'mn' in blue and green, followed by 'DEPARTMENT OF EDUCATION'. Below is a dark blue navigation bar with links: Home, About, Students and Families, Licensing, Districts, Schools and Educators, and Data Center. A breadcrumb trail reads 'MDE > Districts, Schools and Educators > Statewide Testing'. The main heading is 'Statewide Testing'. The left sidebar lists: Statewide Testing, Achievement Level Descriptors, Item Samplers, Minnesota Tests, National Assessment of Educational Progress (NAEP), Register for Advisory Panels, Released Items (highlighted with a red arrow), and Test Specifications. The main content area includes a paragraph about the Statewide Testing division, a section for 'Assessment Resources' mentioning Pearson's MCA, MTAS, and OLPA, and a 'Communication' section about weekly updates.

## [Released Items and Passage Sets](#)

# Using the Item Samplers in Formative Assessment

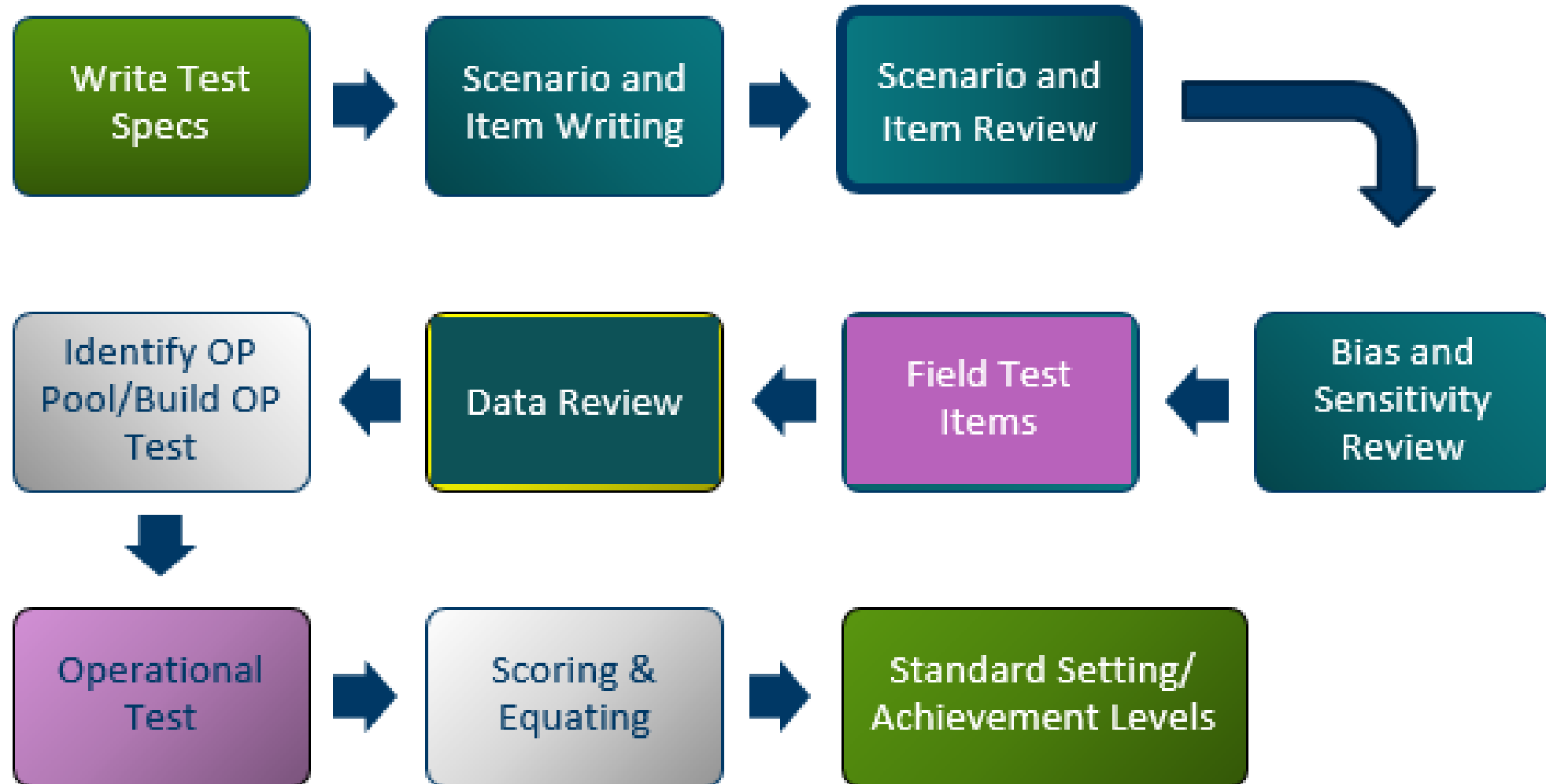
- Exit Slip after that standard is taught
- Warm-Up Questions at beginning of class
  - Use to gauge prior understanding before teaching the lesson
  - Use to gauge their level of understanding the day after teaching the concept
- Not intended to be used for making full-length practice tests
- NAEP Questions tool to be added in future directly on Testing 1-2-3

- Assessment Videos – explain types of assessments and examples, adapted from Wisconsin
- Components of a Comprehensive and Balanced Assessment System
- Formative, interim, and summative assessment resources



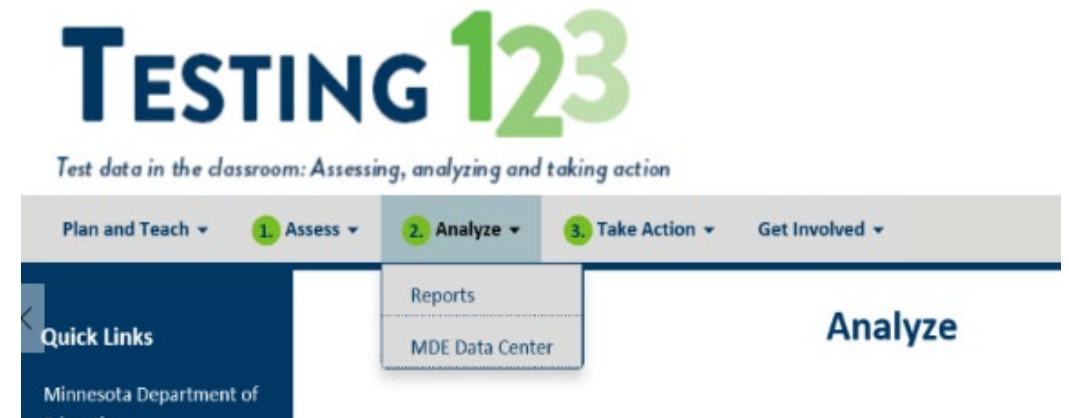


# Test Development Process at MDE



# Analyze Resources

- MCA Scale Score Resources
- Guides for Interpreting Various Score Reports (ISR, Benchmarks, etc.)
- Guide for Understanding MCA and MTAS Rosters
- Data Center Overview



# Scale Score Definitions

## Theta ( $\theta$ )

The estimate of “ability” (performance)

- Theta range for Minnesota Assessments [-3 to 3]

## Scale Score (SS)

The theta/ability estimate is transformed into the scale score via transformation

- MCA-III scale scores are from X01-X99 (X = grade)

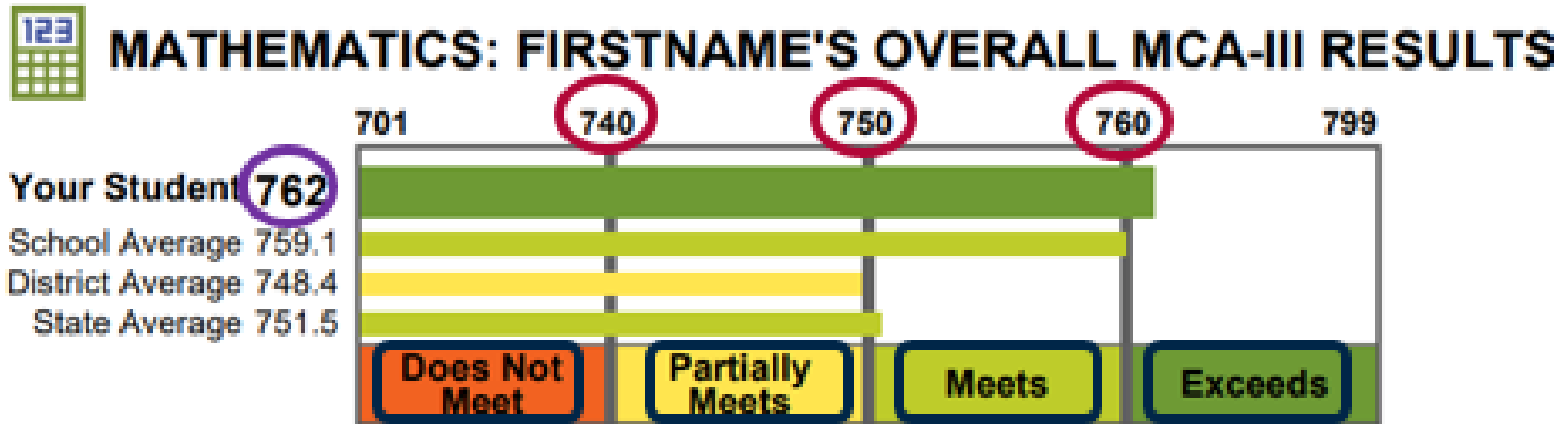
## Achievement Level Descriptors (ALDs)

Describes the level of student achievement (Does not meet standards, Partially Meets Standards, Meets Standards, Exceeds Standards)

# Where you see scale scores and ALDs (Individual Student Report – ISR)

**Scale Score (SS)**  
(theta transformed)

**Cut Scores (based on the ALDs)**

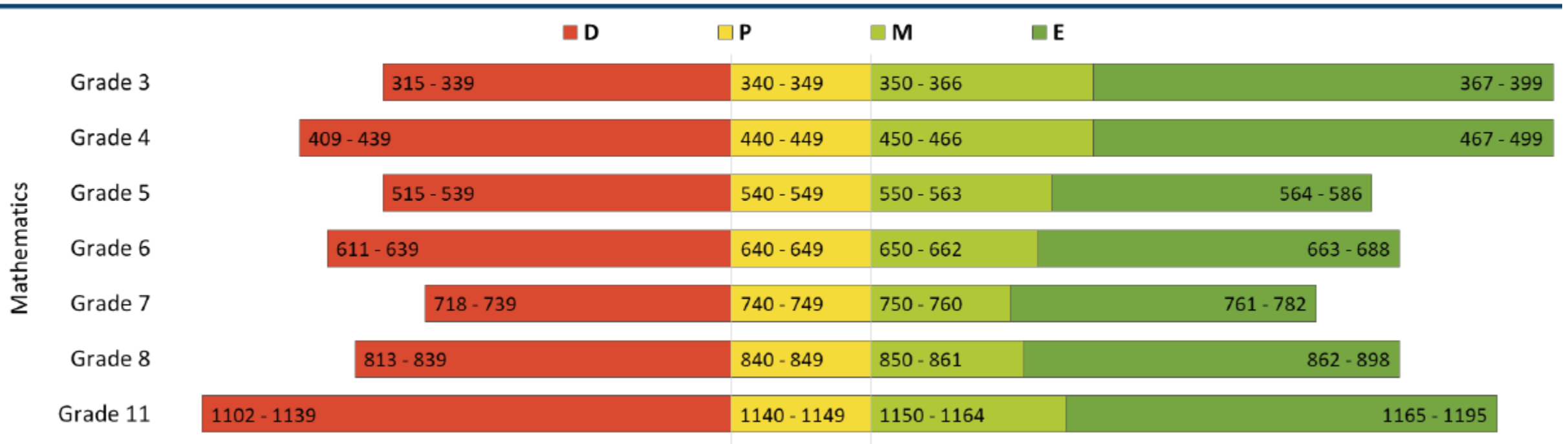


## Achievement Levels

# Scale Scores Continued

<https://testing123.education.mn.gov/test/analyze/report/> > Resources > Understanding MCA Scale Scores

Scale Score Ranges for Each Achievement Level

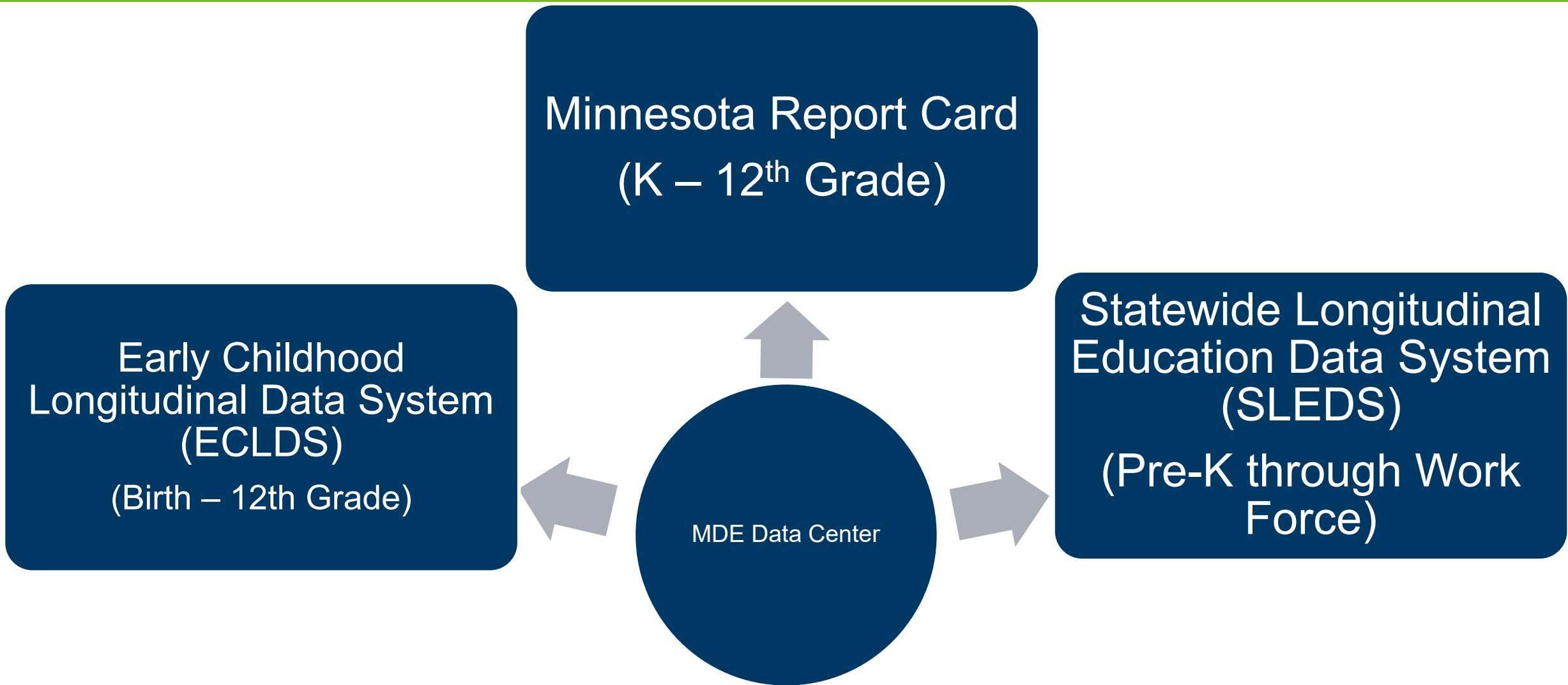


# Appropriate use of Scale Scores

- MCA scale scores are based on grade-level specific content
- In technical terms, this means the scores are not “vertically aligned”
- Scale scores should never be compared across the grades for a particular student, especially when determining if a student has no growth, remained the same, or improved.
- The achievement levels CAN be used to assess whether student growth across grades is demonstrated.

<https://testing123.education.mn.gov/test/analyze/report/> > Resources > Where do Scale Scores Come from?

# MDE Data Center: Mobile Analytics



# Teacher Involvement with State Testing



# Get Involved with MDE State Testing

- If you would like to receive updates about assessment information relevant to teachers, please [sign up](#) for the Newsletter on the website
- Or you can send an email request to [mde.testing@state.mn.us](mailto:mde.testing@state.mn.us) OR [kendra.olsen@state.mn.us](mailto:kendra.olsen@state.mn.us)

The screenshot shows the TESTING 123 website interface. The header includes the logo 'TESTING 123' with the tagline 'Understanding, interpreting and using test data in the classroom'. On the right, there is a search bar and a 'Glossary' link. A navigation bar contains links for 'Grade Level Resources', 'Assessment Details', 'Reports', 'MDE Data Center', 'Sample Questions', and 'Trainings'. A left sidebar lists 'Quick Links' including 'Minnesota Department of Education', 'Minnesota Standards Portal', 'PearsonAccess Next', 'Teacher Newsletter' (circled in red with a red arrow pointing to it), 'Sign-up to be part of a Teacher Advisory Panel', and 'Request Information'. The main content area is titled 'Trainings' and contains text about finding online and in-person trainings, a link to the 'Pearson's Training Management System (TMS)', and sections for 'Minnesota Assessment Life Cycle Course' and 'Other Data and Reporting Trainings' with bulleted details.

# MCA Teacher Review Panel

- Please forward website link to your building Principals, who can share with teachers.
- Teachers can register in the [MDE Advisory Panel database](#) – linked on [Testing 123 site](#)

## Benefits:

1. Teachers will see upcoming MCA Questions.
2. You will receive compensation for a sub if during the school year.
3. Opportunity to improve test for students



The screenshot shows the Testing 123 website interface. The header includes the 'TESTING 123' logo with the tagline 'Understanding, interpreting and using test data in the classroom' and the Minnesota Department of Education logo. A search bar is located in the top right. The navigation menu includes 'Grade Level Resources', 'Assessment Details', 'Reports', 'MDE Data Center', 'Sample Questions', and 'Trainings'. The main content area is titled 'Trainings' and contains information about online and in-person training opportunities. A red arrow points to the 'Sign-up to be part of a Teacher Advisory Panel' link in the 'Quick Links' sidebar.

# Questions and feedback

Please take the remaining time to complete the paper feedback form and ask any questions about the website.

[Testing123.education.mn.us](https://testing123.education.mn.us)

# Thank you!

Kendra Olsen

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