

# M-STEP 2016

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MERA – May 2016



# 6 M-Step™ 2016

Michigan Student Test of Educational Progress

## Major Improvements

...after feedback from students, parents, and educators.



### 1 SHORTER TOTAL TEST TIME...



2 more flexible scheduling for schools

### 3 FASTER RESULTS!

Preliminary results to educators within days. Final results to schools and parents prior to the start of the 2016-17 school year.

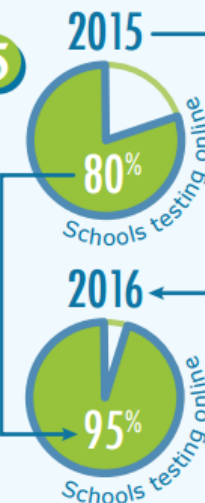
### 4 COMPUTER ADAPTIVE TESTING

for grades 3-8, English Language Arts and Mathematics:

- ✓ personalized testing
- ✓ more precise measurement of ability
- ✓ improved test security

### 5 SAT FOR HIGH SCHOOL STUDENTS

...will serve as college entrance and the state ELA and mathematics assessment, reducing test time by up to 8 hours.



# Videos

## M-STEP 2016 Video

<https://www.youtube.com/watch?v=dUQ6NayCNiA>

## Student Experience Video

<https://www.youtube.com/watch?v=s6YEkBQ6RVk>

# Spring 2016 Stats

## ➤ Completed Test Sessions First 2 Weeks (Grades 5, 8, 11)

✓ Over 1,324,432 test sessions

## ➤ Avg. Length of Total Test:

✓ 7-16 hrs in 2015 vs. 4-8 hrs in 2016

## ➤ Number of Incident Reports during Week 1:

✓ 2,065 in 2015 vs. 681 in 2016 nearly 69% Reduction

## ➤ 48 Hour M-STEP Preliminary Reports

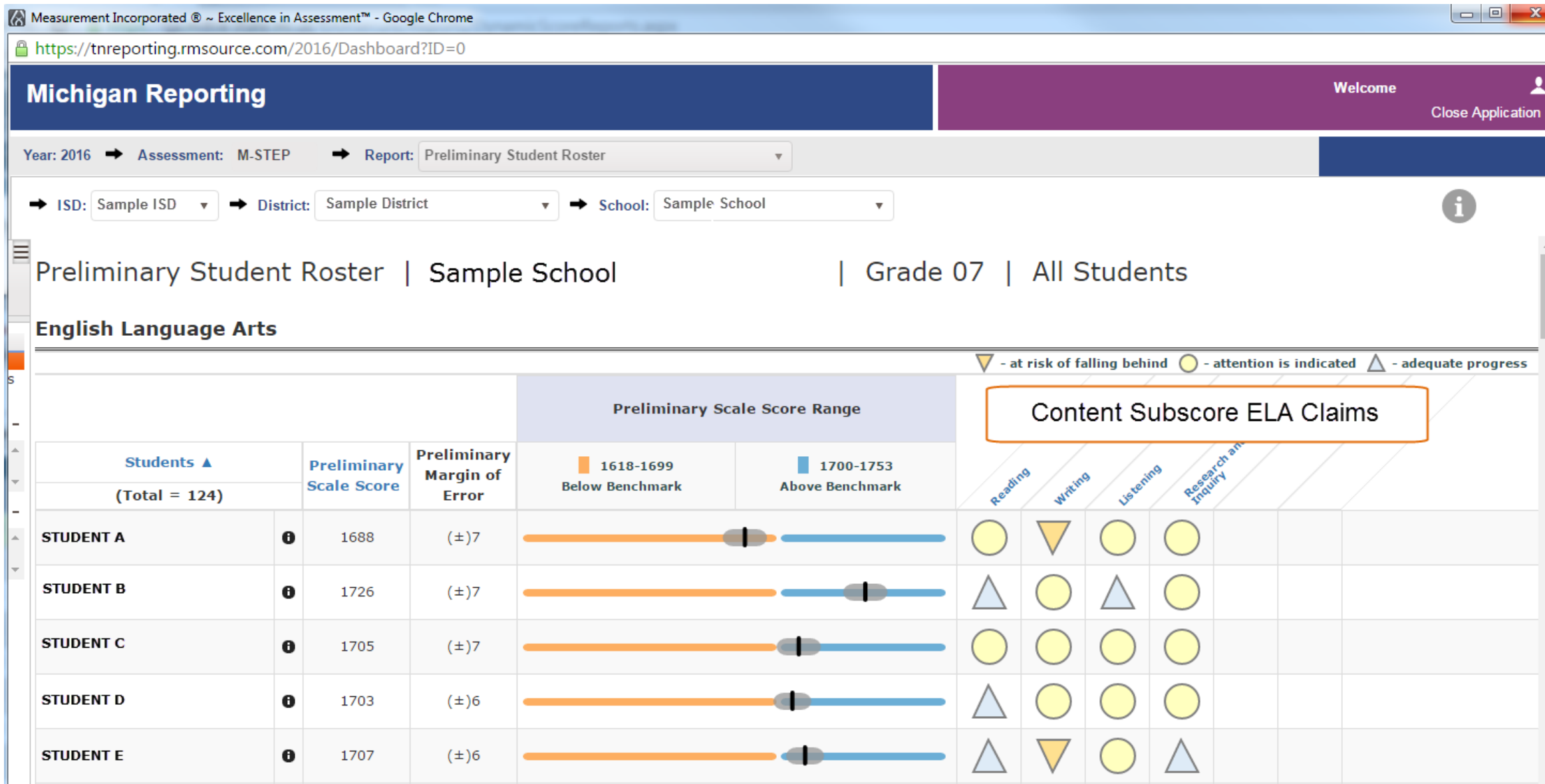
✓ Delivered on time (actually early – For example, within 32 hours after the first two days of testing)!

✓ 730,763 reports posted via the Secure Site as of 4/27/16

# Reporting Improvements!

- Preliminary Reports
  - Available in less than 48 hours after a student completes a complete test!
  - This is a first in the nation for an assessment that has the variety of item types M-STEP does (selected-response, technology-enhanced, constructed-response)
  - Created three levels of designation for claim scores, instead of two.
- Final Reports
  - Student Data File and Final Reports available before Labor Day

# 7<sup>th</sup> Grade Preliminary Report



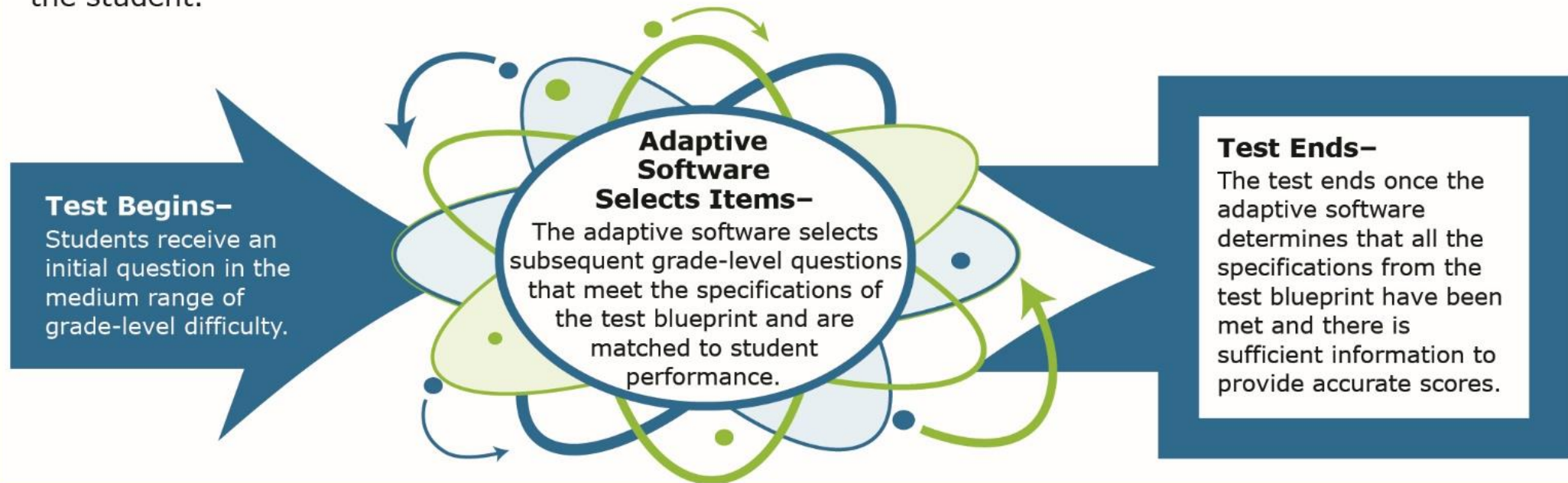
- CAT Testing is New for M-STEP 2016
- Blueprint Based CAT
- On Grade Level Items
- More Precise Measurement, Greater Test Security, Improved Experience

# M-STEP Computer Adaptive Testing (CAT)

## ■ HOW COMPUTER ADAPTIVE TESTING (CAT) WORKS

The M-STEP computer adaptive software draws from a large pool of **on-grade-level** test questions.

The adaptive software runs in the background while students take the assessment. After each response, it selects the next question based on a number of criteria, including: the test **blueprint\***; the number of times a question is likely to be used (to prevent overexposure of questions); and previous responses from the student.



\*The blueprint specifies the content areas and types of questions that will appear on the test.

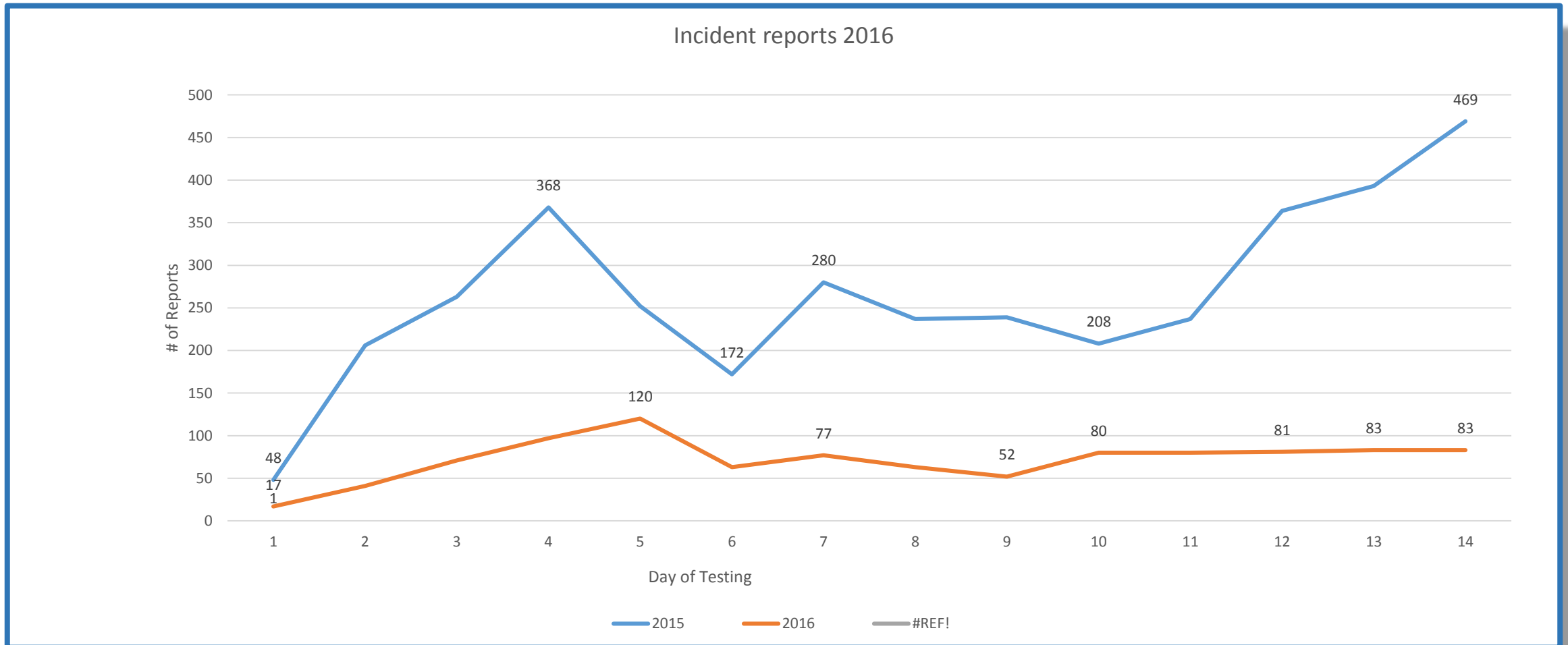


# Comparison Chart of First Two Weeks of Testing Time

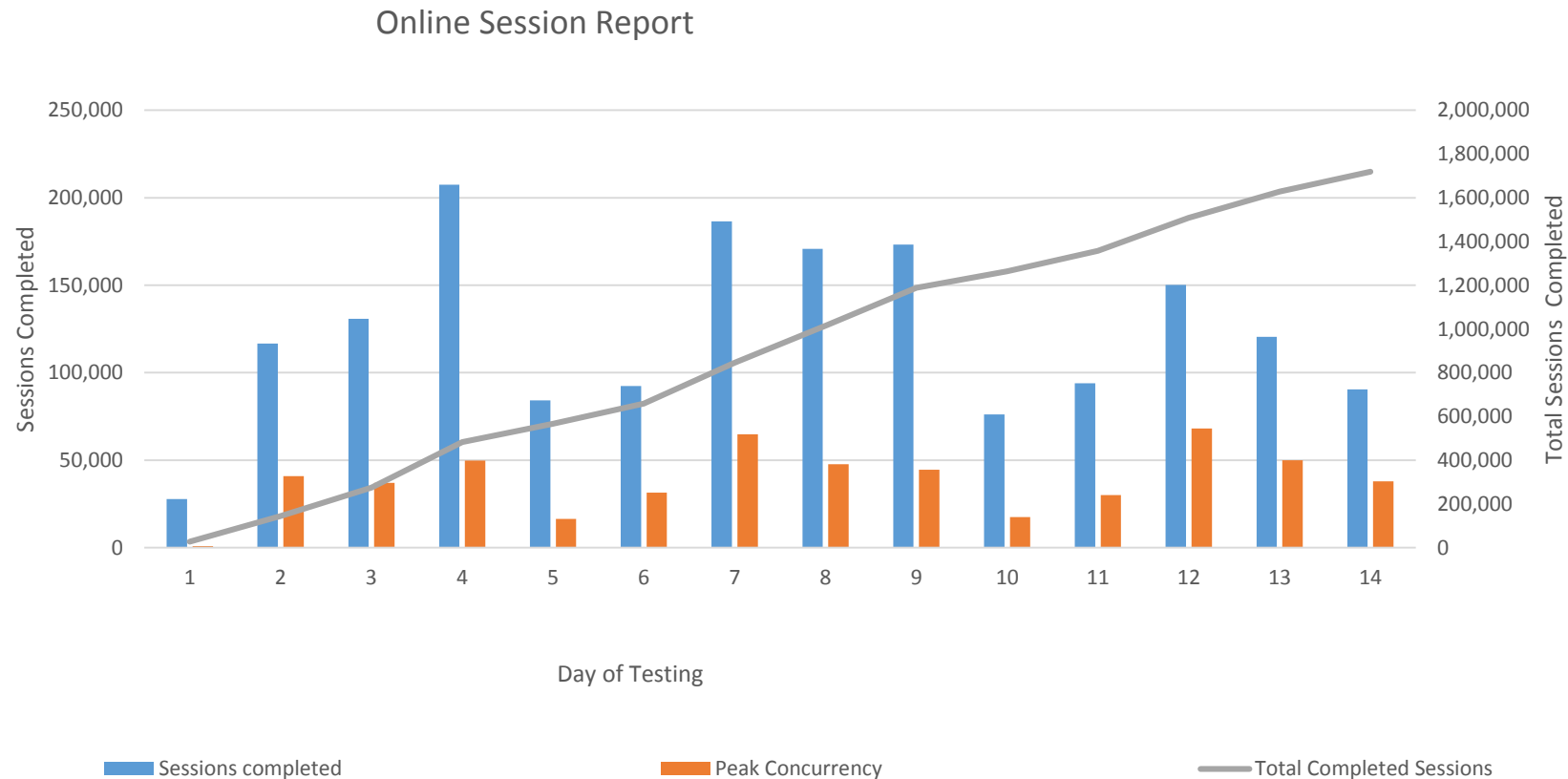
## Actual vs. Estimate

	Actual Time Grade 5	Est. Time	Time Difference	Actual Time Grade 8	Est. Time	Time Difference	Grade 11	Est. Time	Time Difference
ELA CAT	1:31	1:30	<b>+.01</b>	1:20	1:30	<b>-.10</b>			
ELA PT	1:34	2:00	<b>-.26</b>	1:19	2:00	<b>-.41</b>			
MATH CAT	1:11	1:30	<b>-.19</b>	1:14	2:00	<b>-.46</b>			
MATH PT	1:03	1:00	<b>+.03</b>	0:30	1:00	<b>-.30</b>			
Social Studies	:33	1:40	<b>-1.07</b>	0:26	1:40	<b>-1.14</b>	0:29	:50	<b>-.21</b>
Science							0:37	:50	<b>-.13</b>
Totals	5:52	7:40	<b>-1:48</b>	4:49	8:10	<b>-3:21</b>	1:06	1:40	<b>-.34</b>

## Number of Incident Reports – 2015 vs. 2016



# Online Session Report – First 14 days of testing



# Dynamic Reporting Project

## PROJECT OVERVIEW

- Legislatively funded project
- Based on a concept delivered in other states

## GOALS

- To deliver Assessment data in a more timely manner
- To allow parent, students, and educators electronic access to assessment data
- To deliver reports that will allow educators the ability to make data driven instructional decisions

# Dynamic Reporting Project

## HOW IT WORKS

- Integration through Student Information System (SIS)
- Allows students, parents, educators access to reports through their SIS sign-on (No need for a second sign-on)
- Access is determined by rights given in the SIS (class/course, etc.)
- Updates dynamically as student rosters change
- Reports allow for drill down capability

# Dynamic Reporting Project

## Pilot Spring 2016

**(Includes three local districts and two Student Information Systems)**

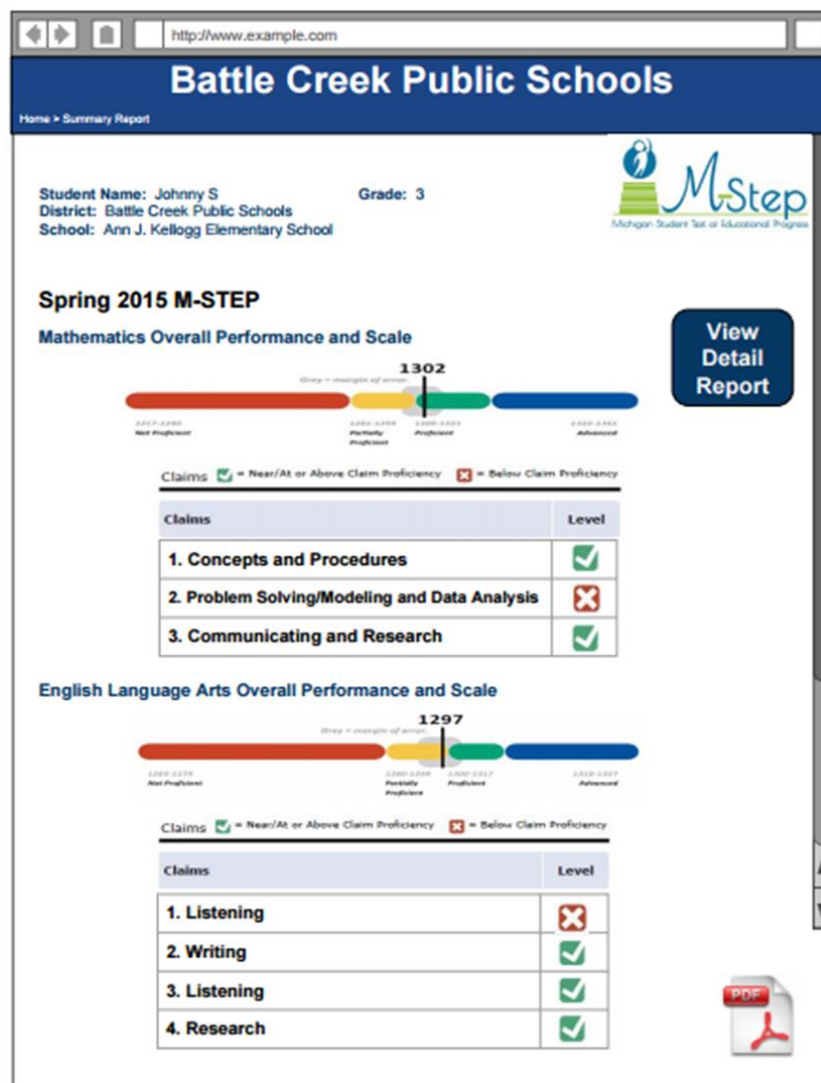
### PILOT GOALS

- Review Reports
- Test system functionality and security
- Provide feedback on system “look and feel”
- Provide input for potential future enhancements
- Prepare for larger statewide rollout

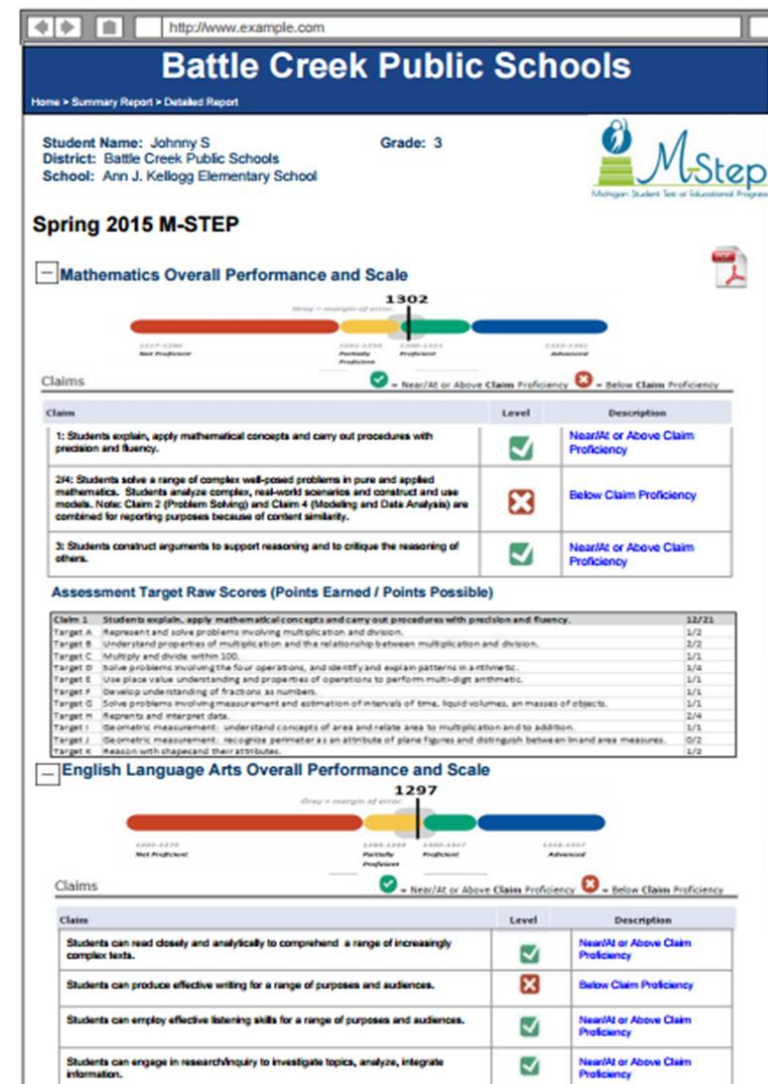
# Dynamic Reporting Project

## Sample Student/Parent Reports

### Summary Report

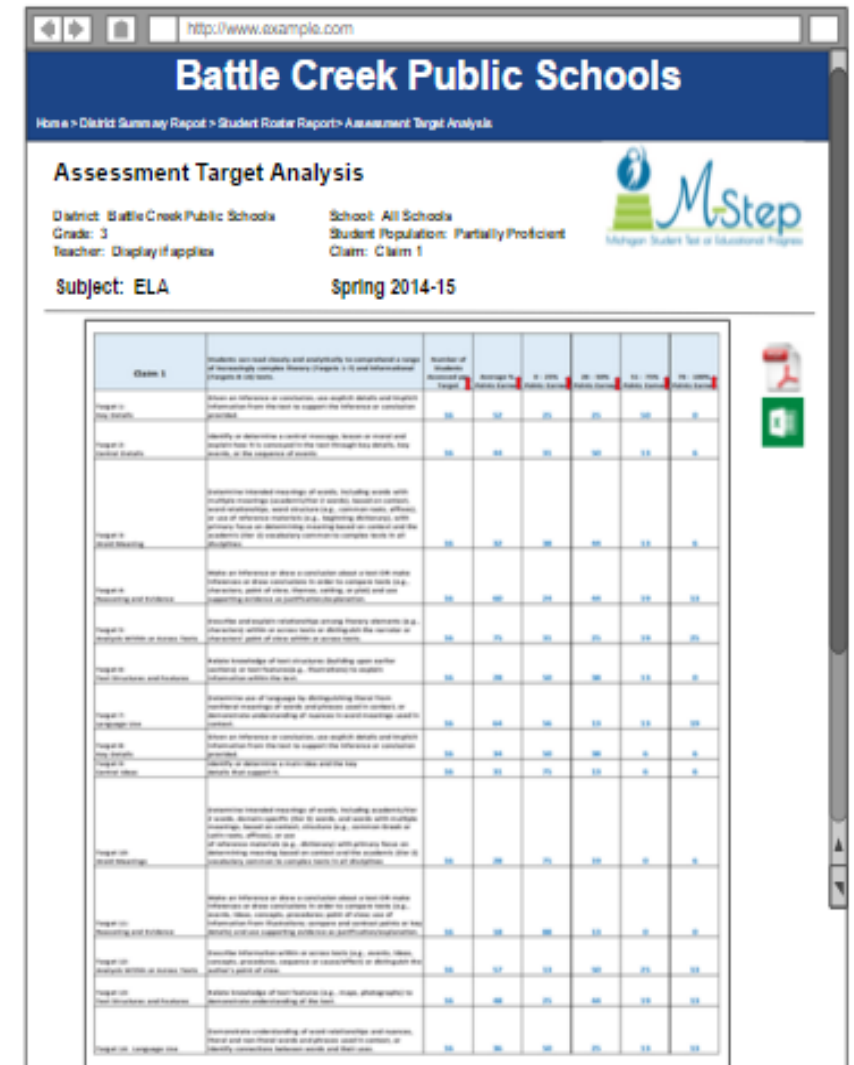


### Detail Report



# Sample Educator Reports

# Assess. Target Analysis





# QUESTIONS?