

# California Practitioners Advisory Group Meeting

## Item 4: California School Dashboard: Overview of Changes Made to the Calculation of the State Indicators

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### Analysis, Measurement, and Accountability Reporting Division

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# Topics

- Changes to Calculation of Academic Indicator
  - Prior State Board of Education (SBE) Actions on Academic Indicator
  - Review of Distance from Level 3 (DF3) methodology
  - Comparison of 2016 and 2017 Results
  - Actions at November 2017 SBE meeting

# Topics (Cont.)

- SBE Action on Chronic Absenteeism Indicator
- Business Rule Changes
  - Suspension Rate Indicator

# **Changes to Calculation of Academic Indicator**

# Prior SBE Action on Academic Indicator: November 2016

- Directed CDE staff to develop recommended cut scores and performance categories for the English Language Arts/Literacy (ELA) and mathematics assessments in grades three through eight using scale scores to measure student progress for consideration at the January 2017 SBE meeting.

# Prior SBE Action on Academic Indicator: January 2017

- Approved performance standards for Academic Indicator
  - Using Distance from Level 3 (i.e., Distance from Standard Met methodology)
  - Based on 2015 and 2016 Smarter Balanced test results
- Approved Academic Indicator for inclusion in Spring 2017 Dashboard

# Prior SBE Action on Academic Indicator: September 2017

- Approved to delay incorporation of California Alternate Assessments (CAAs) in Academic Indicator
- Directed CDE staff to report CAA data (for transparency purposes) in the Dashboard.
- CDE provided update on work to include the 2016–17 Smarter Balanced Summative Assessment Results in Academic Indicator.

# Review of Distance from Level 3 Methodology

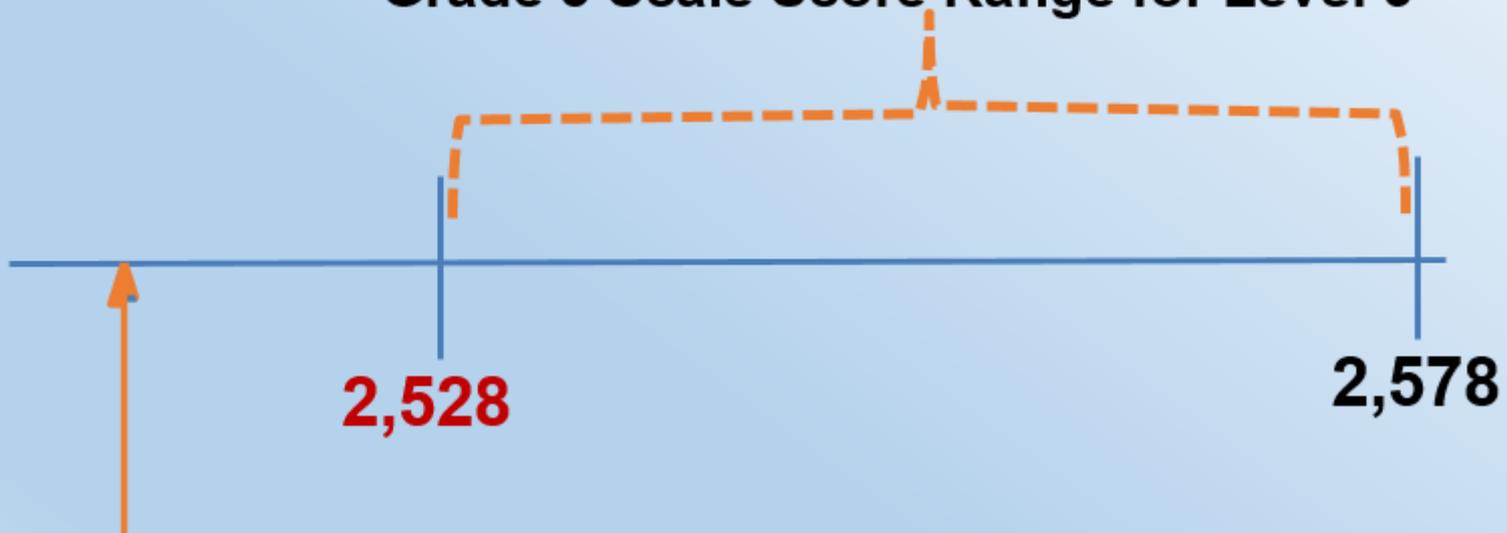
- Distance between:
  - Student's score on Smarter Balanced Summative Assessments, and
  - Lowest possible scale score\* for Standard Met Achievement Level (**Level 3**)

\*Scale scores vary by content area and grade level.

# DF3 Example: Grade Five Mathematics

Grade five student received a score of **2,505**.

**Grade 5 Scale Score Range for Level 3**



Student scored 2,505. This is 23 points below the lowest possible score for Level 3.

$$(2,505 - 2,528 = -23 \text{ points})$$

# Change Comparison Between the 2017 Spring/Fall Dashboards

- **Spring 2017 Dashboard:** Performance standards for Academic Indicator based on two years of data (2015 and 2016)
  - Distributions were positively skewed: Over 80 percent of LEAs had positive change.
- **Fall 2017 Dashboard:** 2017 Change distribution are more symmetrical: 45 percent of LEAs had a positive change

# Change Comparison from Spring/Fall 2017

## Math Spring 2017

Percentile	Math Change from Prior Year to Current Year	Change Level	
5	-11.8	<b>Declined Significantly</b>	
6.6	-10	<b>Declined</b>	
10	-7.1		
15	-4		
20	-1.65		
21.8	-1		
25	0.2	<b>Maintained</b>	
30	1.7		
35	3		
40	4.3		
43.7	5		
45	5.3	<b>Increased</b>	
50	6.4		
55	7.4		
60	8.4		
65	9.7		
70	10.9		
75	12.5		
80	14.6		
81.5	15		<b>Increased Significantly</b>
85	16.8		
90	20		
95	25		

## Math Fall 2017

Percentile	Math Change from Prior Year to Current Year	Change Level	
5	-19.5	<b>Declined Significantly</b>	
9	-15	<b>Declined</b>	
10	-13.7		
15	-10.1		
20	-7.9		
25	-6.1		
30	-4.3	<b>Maintained</b>	
35	-3.1		
35.6	-3.0		
40	-2.1		
45	-1.1		
50	.1		
55	1.1		
60	2.1	<b>Increased</b>	
63.9	3.0		
65	3.4		
70	4.6		
75	6.1		
80	7.9		
85	9.8		
90	13.7		
91.4	15.0		<b>Increased Significantly</b>
95	20.1		

# November 2017 SBE Action

- Approved:
  - New **Change cut scores** for ELA and mathematics
  - New High and Medium **Status cut scores** for mathematics
  - New **color layout** for the five-by-five grid

# Options Reviewed at November 2017 SBE Meeting

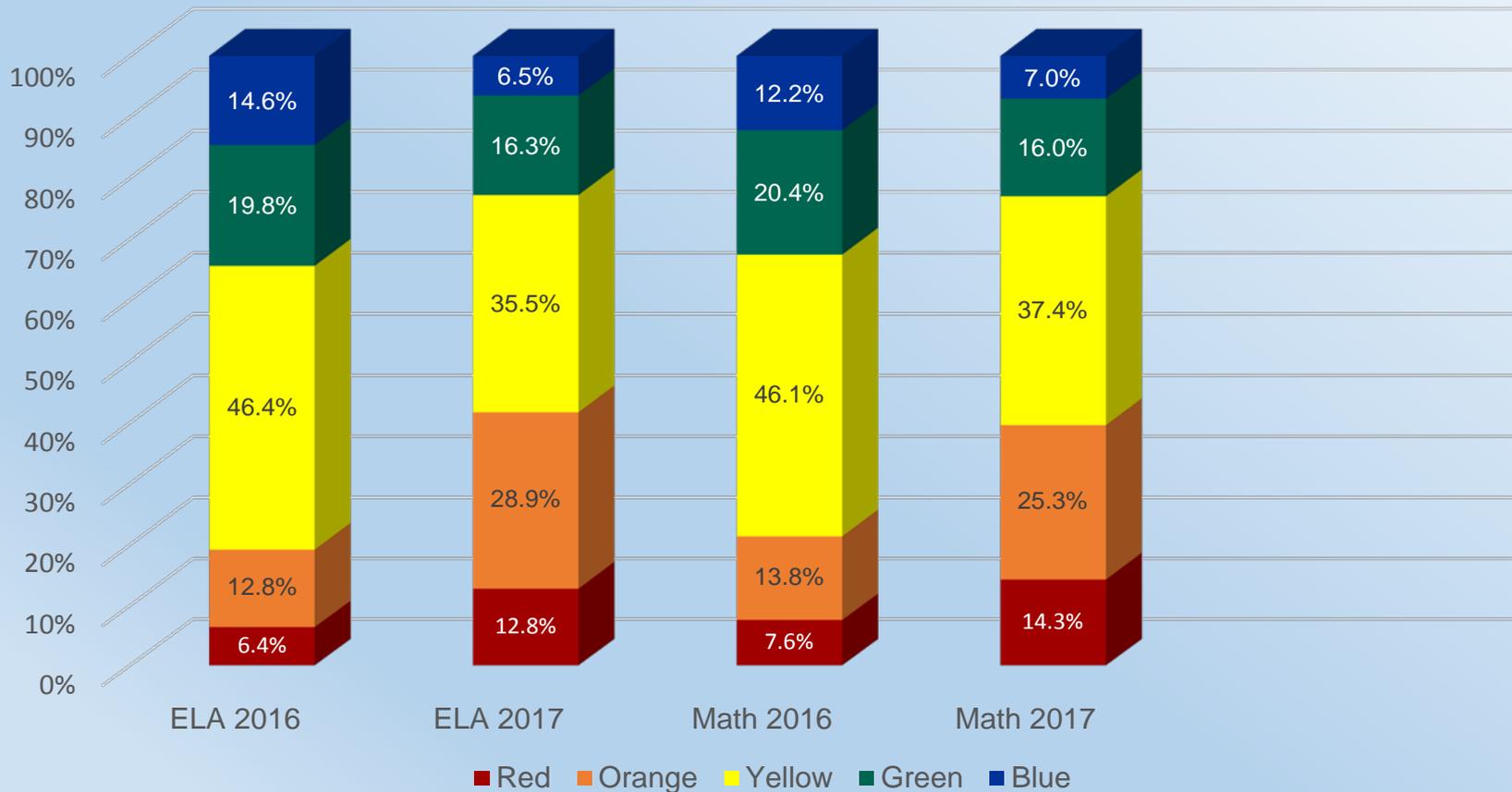
- **Maintain:** Original Color layout and Original Cut Scores
- **Option 1:** New Change Cut Scores, New Status Cut Scores for mathematics, and New Color Layout-  
*Recommended Option*
- **Option 2:** New Color Layout and Original Cut Scores
- **Option 3(a):** New Cut Scores and Original Color Layout
- **Option 3(b):** New Cut Scores and Alternate New Color Layout
- **Option 4:** Two-Year Average

# Recommendation: New Cut Scores/New Color Layout

- Establishes goals based on a more actual picture of performance statewide that continue to be ambitious and sustainable
- Reduces volatility from year to year and controls for large swings (two or more performance levels)

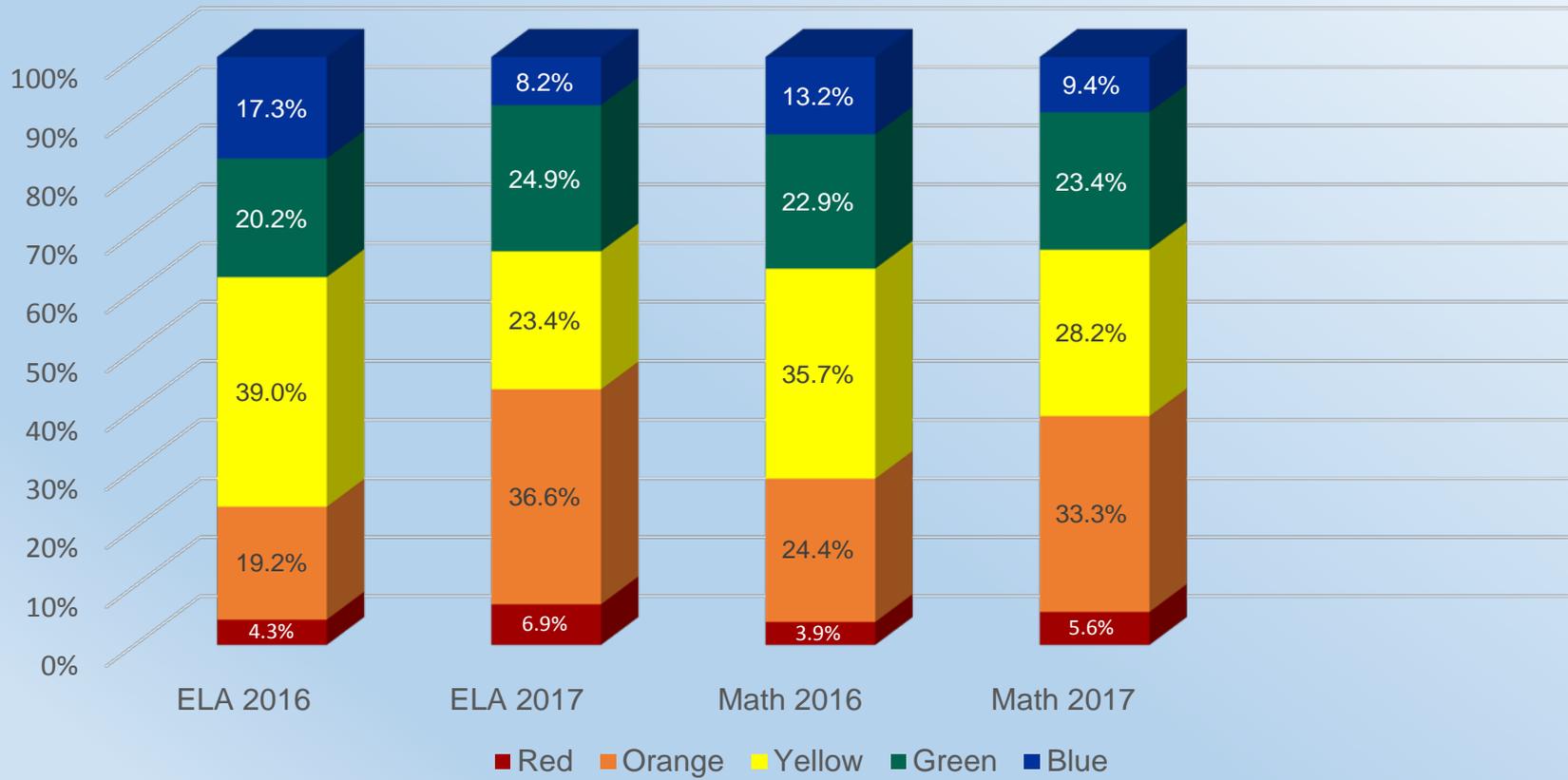
# Original Methodology

## Original Color Layout and Cut Scores



# Recommended Methodology

## New Color Layout and Revised Cut Scores



# Comparing Original Methodology to Recommended Methodology

## LEA Results

	2016 ELA- <i>Current</i>	2016 Math- <i>Current</i>	2017 ELA- <i>Current</i>	2017 Math- <i>Current</i>	2017 ELA Option 1	2017 Math Option 1
Red	81	119	169	231	64	89
Orange	177	217	487	410	328	600
Total	258	336	656	641	692	689

# Revisions to *Change* Cut Scores

## New Change Cut Scores for Both English language arts and Mathematics

### **Increased Significantly**

By 15 points or more

### **Increased**

by 3 to less than 15 points

### **Maintained**

Declined by less than 3 points or  
Increased by less than 3 points

### **Declined**

By 3 to 15 points

### **Declined Significantly**

by more than 15 points

# Revisions to *Mathematics* Cut Scores

Status Cut Scores
<b><i>Very High</i></b> 35 or higher
<b><i>High</i></b> Zero to 34.9 points (revised)
<b><i>Medium</i></b> -25 points below to less than Zero (revised)
<b><i>Low</i></b> -25.1 points to -95 points
<b><i>Very Low</i></b> -95 points or lower

# Rationale: Revisions to Status Cut Scores for Mathematics

- Ensure that LEAs and schools cannot receive a “High” Status if they have a negative DF3:
  - Addresses issues raised by advocacy groups after release of Spring 2017 Dashboard

# New ELA

## Five-by-Five Colored Table

Level	Change: Declined Significantly by more than 15 points	Change: Declined By 3 to 15 points	Change: Maintained Declined by less than 3 points or Increased by less than 3 points	Change: Increased by 3 to less than 15 points	Change: Increased Significantly By 15 points or more
Status: Very High 45 points or higher	Green	Green	Blue	Blue	Blue
Status: High 10 to 44.9 points	Green	Green	Green	Green	Blue
Status: Medium -5 points to +9.9 points	Yellow	Yellow	Yellow	Green	Green
Status: Low -5.1 to -70 points	Orange	Orange	Orange	Yellow	Yellow
Status: Very Low -70.1 points or lower	Red	Red	Red	Orange	Orange

# New Mathematics Five-by-Five Colored Table

Level	Change: Declined Significantly by more than 15 points	Change: Declined By 3 to 15 points	Change: Maintained Declined by less than 3 points or Increased by less than 3 points	Change: Increased by 3 to less than 15 points	Change: Increased Significantly By 15 points or more
Status: Very High 35 points or higher	Green	Green	Blue	Blue	Blue
Status: High zero to 34.9 points	Green	Green	Green	Green	Blue
Status: Medium -25 points to less than zero	Yellow	Yellow	Yellow	Green	Green
Status: Low -25.1 to -95 points	Orange	Orange	Orange	Yellow	Yellow
Status: Very Low -95 points or lower	Red	Red	Red	Orange	Orange

# **SBE Action on Chronic Absenteeism Indicator**

# SBE Action on Chronic Absenteeism Indicator

- Include a link in Fall 2017 Dashboard that directs users to Chronic Absenteeism reports on DataQuest.
- Direct CDE staff to develop recommendation for:
  - March 2018 SBE meeting: Proposed Status cut scores to be used to update Fall 2017 Dashboard
  - September or November 2018 SBE meeting: Proposed Change cut scores

# **Business Rule Changes: Suspension Rate Indicator**

# Suspension Rate Indicator

## K-12 Schools

- For the Fall 2017 Dashboard K-12 schools will have the unified district cut scores applied:
  - Using enrollment to determine a school type (elementary, middle, high) disadvantaged schools that were assigned an elementary type vs. middle or high school type.
  - K-12 enrollment is more aligned to unified districts than any of the other indicators

# Suspension Rate Indicator K-12 Schools (Cont.)

- Using the unified school district five-by-five colored grid provides a better and fairer evaluation of suspension rates for K-12 schools.
  - This change had a positive impact on 29 schools (i.e., increase in performance level). No schools were negatively impacted.

# Questions and/or Discussion

