

Multiple



Measures

*Bringing Assessment Data Into the Classroom*

**“Delivering actionable assessment analytics and growth metrics to teachers and administrators with MMARS Jux™”**

*Positively affecting the educational outcomes for all students*

**Multiple Measures Assessment Reporting Service™**

[www.k12multiplemeasures.com](http://www.k12multiplemeasures.com)

# What do we do?

- **Assessment reporting services**

Serve K-12 school districts and charter schools throughout the U.S. We are not an assessment company.

- **Analytics / graphics / visualization / comparisons**

Provide a variety of multi-year achievement and growth reports for pupils, groups, and subgroups.

- **Assessment data warehouse.**

Report *ANY annual or periodic assessment.*

# Supported Tests



*and more ...*

- **State tests** / high stakes ELA & Math assessments (SBAC, PARCC, independent) *for any state*. We currently serve LEAs in California, Utah, New Jersey, Michigan, and are working with pilot sites in Illinois, Colorado, Minnesota, Ohio, Oregon, and Washington. More to come.
- Other state tests (EL, SWD, Science, Social Studies, etc).
- **Interim / benchmark / diagnostic** tests from major publishers (iReady, NWEA-MAP, Study Island, Renaissance, PSAT, Illuminate, etc.)
- **District-built tests**, including course classroom grades.
- We have the ability to set up any annual or periodic test, even if not currently supported.

# What sets us apart?

- **Batch Processing**: Automated, iterative reports for each school and/or each teacher. With one instruction (inside of 30 seconds), we (or you) can create hundreds, or even thousands, of reports, automatically. Incredibly efficient, especially for larger districts, and at the teacher/classroom level.
- **Pre-built Library / Report Inbox**: *Those thousands of reports referred to above? ... we will pre-build them for you.* Or, you can create-your-own. We offer easy, secure, electronic distribution to all your stakeholders, in all levels/roles: district evaluators, site administrators, teachers.
- **Ease of use**: Zero to Minimal training required. Low staff time. We do all the work.

*more ...*

MMARS™ only features ... continued

- **Speed / performance**: Our reports, even summaries with large student counts, are displayed in seconds. No need to wait and/or come back later to confirm completion, then download. No need to initiate each report separately.
- **Output**: In addition to attractive on-screen display, we offer all reports in print-friendly PDF format, and we offer the underlying pupil or aggregate data via Excel.



*more ...*

MMARS™ only features ... continued

- **Jux™ summaries** (short for juxtaposition .... graphical side-by-side comparative reporting). Compare years, terms, subjects, claims/clusters, schools, grades, *and teachers*.
- **Matched-student pre-post growth reporting** at pupil and aggregate levels, with our FPL™ and DFL3 change metrics.
- **Classroom pupil lists**, using your rosters (as-tested and new school year; even period-by-period for secondary schools).
- **Classroom summaries**, *comparative teacher reports – quantifying Instructional Impact*.

# Turnaround Time

**How long will it take us to have reports in your hands?**

- Currently supported tests: 3 business days (or faster)
- New tests: approx. 2-4 weeks

# Online Access / Student Privacy / Customer Support

- **Online access is role-based and secure** (district evaluators, site administrators, teachers).
- Each user can see only the students and/or summaries that pertain to their role.
- **SSL encryption**. Data transfer via ShareFile (built by industry-leader Citrix). MMARS™ reporting site also SSL.
- **Compliant with all legislation**, including FERPA, COPPA, PPRA, SOPIPA, or your unique data privacy agreement. We are a subscriber, offering electronic endorsement for the CSDPA – California Student Data Privacy Agreement.
- **Live telephone, email, chat, and remote online** assistance, during the business day.



# Additional Information / References

- We offer a **MMARS™ Free Edition**. This provides a wealth of districtwide and schoolwide summary and comparison graphic reports. No risk, no cost, your data. Visit our [store](#) to order.
- Please visit our [website](#) for more information and LOTS of report examples.
- Call, email, or live chat with us for additional information, or to schedule a demo / presentation.

[www.k12multiplemeasures.com](http://www.k12multiplemeasures.com)

530-295-1262

[tech@multiplemeasures.net](mailto:tech@multiplemeasures.net)

# CHECK OUT OUR WEBSITE

- Website introduction
  - [www.k12multiplemeasures.com](http://www.k12multiplemeasures.com)
  - Reports Gallery
  - Information & Examples
  - MMARS™ Free Edition

# Pre-built Report Library

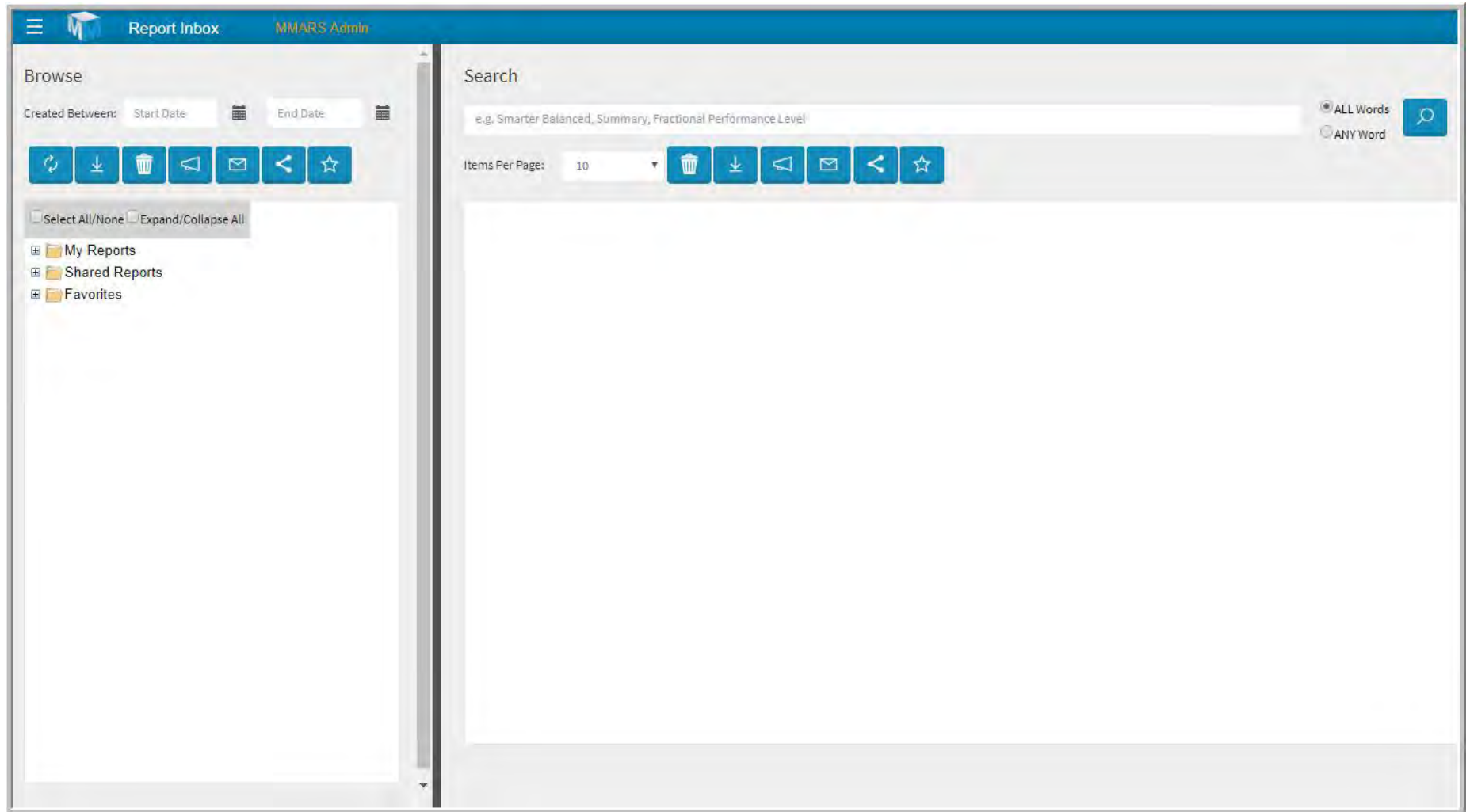
Every administrator & teacher has their own  
searchable **Inbox**

- **We do all the work.** As soon as we load your data, we build a library for you, containing a plethora of summary and pupil reports.
- Then, on your timetable, we reveal these reports to authorized administrators and teachers, according to their role. Each user has their own Report Inbox.
- **No training is required.** *All a user needs to know is how to use a search toolbar ...* and we provide tips and keywords for accessing specific assessment related information. We also offer an alternative, organized Report Browser with a tree/hierarchy structure to easily locate your reports.
- View the PDF or Excel reports with a click.
- Use familiar tools to Share, Download, Notify, Email, Move, Copy, Delete.

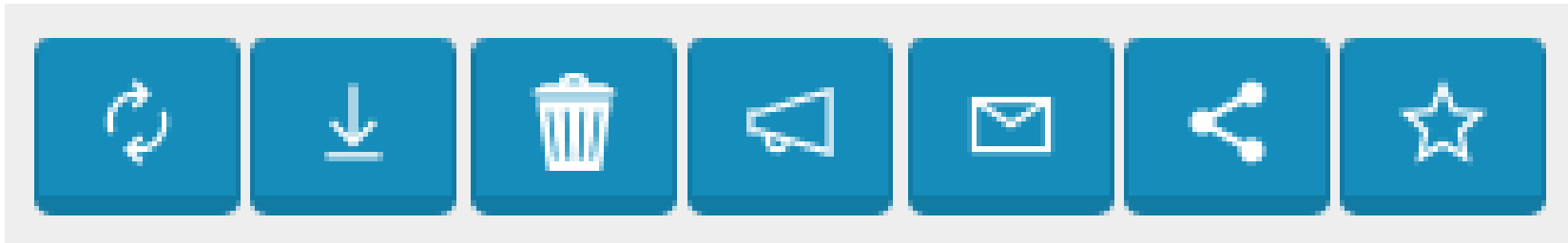
# OUR INCREDIBLE AUTOMATION

- Batch (auto-iterative) reporting
- **Report Library**  
(all the pre-built reports)
- **Report Inbox**  
(each user's unique view to the Library)

# Search your Inbox or Browse the tree/hierarchy.



Use the tool icons to perform actions.



- Refresh
- Download
- Delete
- Notify
- Email
- Share
- Favorite

# Search with keywords to find precisely the reports you're seeking.

Search

sbac,pupil,wilson,houston,2016-17 rosters

ALL Words  
ANY Word



Items Per Page: All








Status	Test	Type	Report	Roster	School	Teacher	Grade	Category	Subgroup	Year	Term
<input type="checkbox"/> Complete	SBAC	Pupil	SBAC Student List with Claims	2016-17 rosters	WILSON ELEMENTARY	HOUSTON	Each Grade	All Students	All Students	15-17	Each Term
<input type="checkbox"/> Complete	SBAC	Pupil	SBAC Student Growth List with Claims	2016-17 rosters	WILSON ELEMENTARY	HOUSTON	Each Grade	All Students	All Students	15-17	Each Term
<input type="checkbox"/> Complete	SBAC	Pupil	SBAC Student Growth List (by Δ FPL™)	2016-17 rosters	WILSON ELEMENTARY	HOUSTON	Each Grade	All Students	All Students	2016-17	SBAC 2017 Sum
<input type="checkbox"/> Complete	SBAC	Pupil	SBAC Multi-Subject Student List	2016-17 rosters	WILSON ELEMENTARY	HOUSTON	Each Grade	All Students	All Students	15-17	Each Term
<input type="checkbox"/> Complete	SBAC	Pupil	SBAC Multi-Subject Student Growth List	2016-17 rosters	WILSON ELEMENTARY	HOUSTON	Each Grade	All Students	All Students	15-17	Each Term
<input type="checkbox"/> Complete	SBAC	Pupil	SBAC Math Student Growth List (by Δ PD3)	2016-17 rosters	WILSON ELEMENTARY	HOUSTON	Each Grade	All Students	All Students	2016-17	SBAC 2017 Sum
<input type="checkbox"/> Complete	SBAC	Pupil	SBAC ELA Student Growth List (by Δ PD3)	2016-17 rosters	WILSON ELEMENTARY	HOUSTON	Each Grade	All Students	All Students	2016-17	SBAC 2017 Sum





Browse

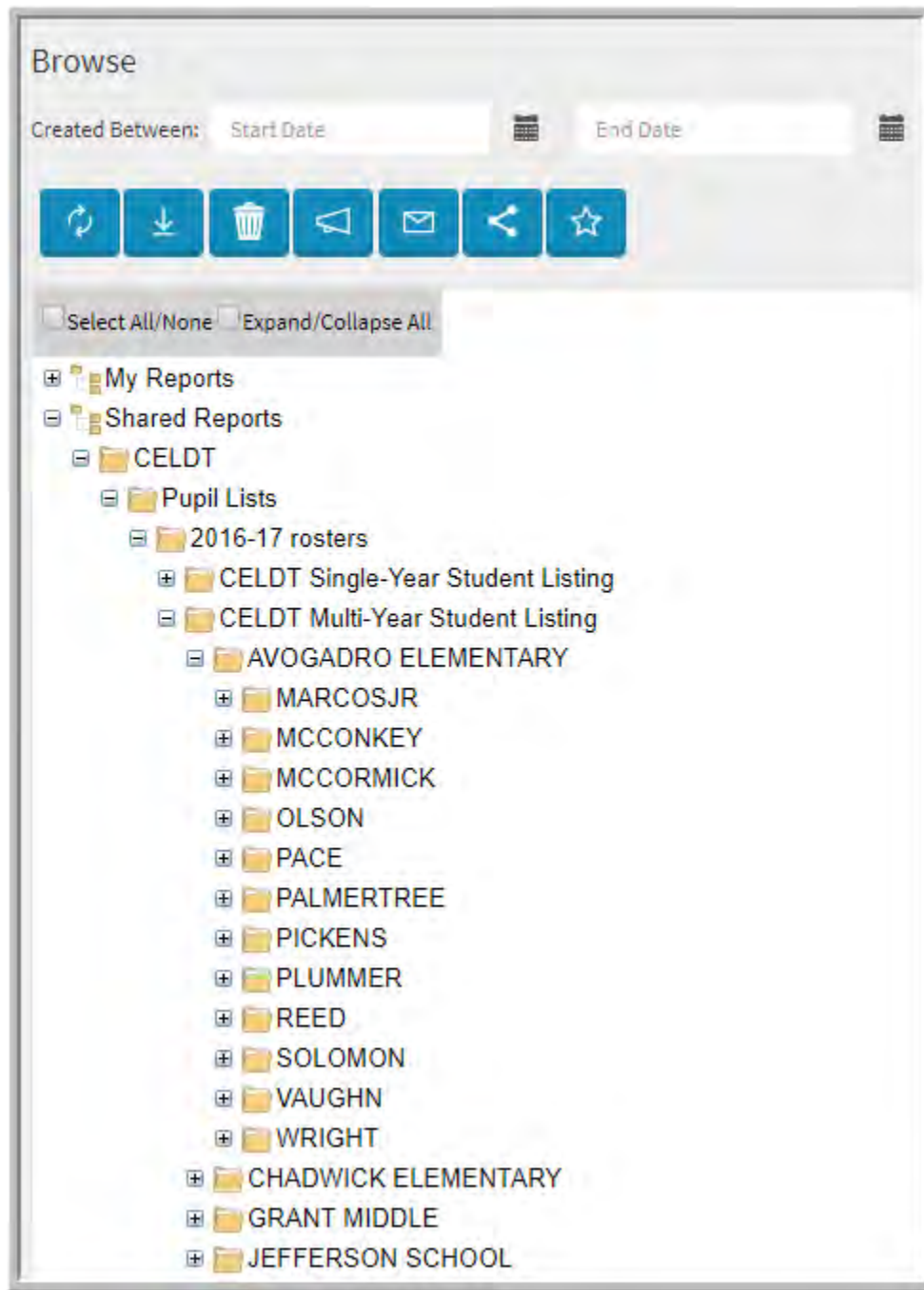
Created Between:    

Select All/None  Expand/Collapse All

- My Reports
- Shared Reports
  - CELDT
  - Smarter Balanced
    - Pupil Lists
      - 2016-17 rosters
        - SBAC Student List with Claims
        - SBAC Multi-Subject Student List
        - SBAC Student Growth List with Claims
        - SBAC Multi-Subject Student Growth List
        - SBAC Student Growth List (by  $\Delta$  FPL™)
        - SBAC ELA Student Growth List (by  $\Delta$  PD3)
        - SBAC Math Student Growth List (by  $\Delta$  PD3)
      - 2017-18 rosters
    - Summary Charts
      - Per Publisher Data File
        - SBAC Achievement Levels
        - SBAC Met or Exceeded Standard
        - SBAC Claim Performance
        - SBAC Matched-Student Improvement/Decline ( $\Delta$  FPL™)
        - SBAC ELA Matched-Student Improvement/Decline ( $\Delta$  PD3)
        - SBAC Math Matched-Student Improvement/Decline ( $\Delta$  PD3)
        - SBAC Average Scale Score
        - SBAC Average Point Difference (APD)

Browse through the variety of different summary and pupil reports.



Reports are organized clearly by test, content, and reporting groups.

On any report link, you can “hover” your mouse to view the full set of report details.

The screenshot shows a web interface for managing reports. At the top, there's a 'Browse' section with 'Created Between' filters for 'Start Date' and 'End Date'. Below this are several action icons: refresh, download, delete, share, email, and star. A sidebar on the left shows a tree view of folders: 'My Reports', 'Shared Reports', 'CELDT', 'Smarter Balanced', 'Pupil Lists', 'Summary Charts', 'Per Publisher Data File', 'SBAC Achievement Levels', 'All Schools (districtwide)', 'All Teachers (schoolwide)', and 'All Grades (together)'. A list of report links is shown below the folders, each with a checkbox and a small icon. A dark grey tooltip is overlaid on the first link, displaying detailed report information.

<b>FILE</b>	Status:	Complete
	File:	PDF
	Shared:	Yes
	Author:	demo SBAC
	Created:	2/15/2018 8:32:57 PM
<b>WHAT</b>	Test:	Smarter Balanced
	Result:	Summary
	Report:	SBAC Achievement Levels
	Content:	N/A
	Subject:	Each Subject
	Cluster:	N/A
<b>WHEN</b>	Years(s):	Compare #1
	Term:	Each Term
<b>WHO</b>	Roster:	Per Publisher Data File
	School:	All Schools
	Teacher:	All Teachers
	Grade:	All Grades
	Dept:	All Departments
	Course:	All Courses
	Period:	All Periods
	Category:	EL Aquisition Status
	Subgroup:	Compare #2

The screenshot shows a printer-friendly report view with a dark grey background and light blue text. The report details are organized into sections: FILE, WHAT, WHEN, and WHO, each followed by key-value pairs.

<b>FILE</b>	Status:	Complete
	File:	PDF
	Shared:	Yes
	Author:	demo SBAC
	Created:	2/15/2018 8:32:57 PM
<b>WHAT</b>	Test:	Smarter Balanced
	Result:	Summary
	Report:	SBAC Achievement Levels
	Content:	N/A
	Subject:	Each Subject
	Cluster:	N/A
<b>WHEN</b>	Years(s):	Compare #1
	Term:	Each Term
<b>WHO</b>	Roster:	Per Publisher Data File
	School:	All Schools
	Teacher:	All Teachers
	Grade:	All Grades
	Dept:	All Departments
	Course:	All Courses
	Period:	All Periods
	Category:	EL Aquisition Status
	Subgroup:	Compare #2

Or, simply click the link to view the printer-friendly report.

# Achievement & Change Scores

ALD	Achievement Level Descriptor
PL	Performance Level
SS	Scale Score
NPR	National Percentile Rank
RIT	Rasch Unit
Prof	Proficiency
%Cor	Percent Correct
RS	Raw Score (number correct)
SIP	Standard Item Pool
GLE	Grade Level Estimate
Lexile	Lexile
RR	Reading Rate
NCE	Normal Curve Equivalent
S9	Stanine
PredSS	Predicted Scale Score
PredPL	Predicted Performance Level
SGP	Student Growth Percentile
... and more	

- We report a variety of scores on pupil and aggregate reports. The scores presented depend on your test(s).
- We also compute year-over-year and term-to-term change for these scores.

# Our Unique Growth Measures

FPL™ – Fractional Performance Level™ (and  $\Delta$ FPL™)  
DFL3 – Distance from Level 3 (and  $\Delta$ DFL3)

- For each student, for each span of years and/or terms, we compute the change in performance/achievement. We compute this change for the most recent, and all prior spans.
- **FPL™**: We compute “between” the bands. A student’s Performance Level no longer needs to be represented as a broad figure between 1-4. We provide the Performance Level, on a continuum, based on the scale scores, to the hundredth of a level.
- **DFL3**: We compare each scale score vs. the minimum score required to be proficient, and compute the difference. This is the foundation of the CA School Dashboard, but available for other tests, as well.
- Ranked student lists show who improved/declined the most. Jux™ side-by-side summaries show which groups improved/declined the most.
- For annual tests taken in the spring, the summaries compare the **Instructional Impact**, for schools, grade-levels, subgroups, and teachers.

# FPL™ Student Growth Scores in MMARS™

## Fractional Performance Level™

For each student and subject, the achieved Scale Scores are interpolated between the highest and lowest obtainable scale scores (HOSS/LOSS), in their performance level band, for their grade level.

The relative position in the band is computed in hundredths.

For example:

- an FPL™ score of 2.68 means the student is Level 2 (nearly met) and 68% of the way to Level 3.
- an FPL™ score of 3.88 means the student is Level 3 (met) and 88% of the way to Level 4.

## Student Growth Scores in MMARS™

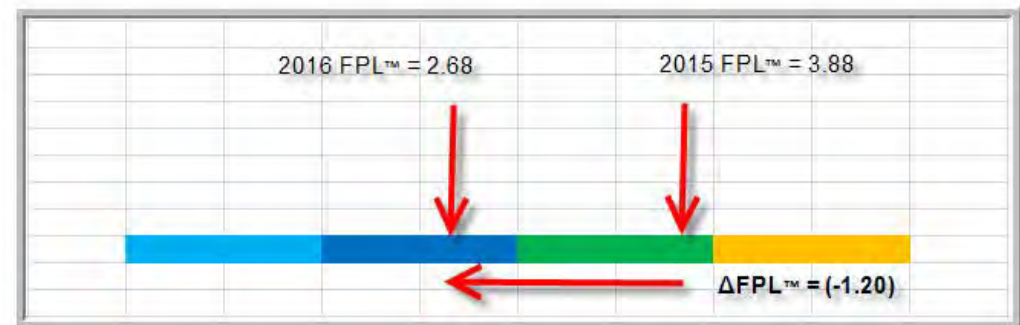
### Smarter Balanced

**Smarter Balanced Student List with Claims**  
Subject: ELA/Literacy

Testing Group Grade: Grade 5		Reporting Group Roster: 2015-16 rosters District: Hometown USD School: ARTHUR ELEMENTARY Teacher: CHISUM, DANIELLE										
Print/Save Report Export to Excel												
Name	Student #	Test Admin	Achievement Level	Other Scores					Claim			
				SS	FPL™	DF3	Δ FPL™	Δ DF3	Reading	Writing	Listening	Research/Inquiry
BAKER, ALICIA	1000020954	2016 Year	Nearly Met	2483	2.68	-19	-1.20	-72	Near	Near	Near	Below
		2015 Year	Met	2526	3.88	53			Above	Near	Near	Above
BOYETT, ASHL	1000014487	2016 Year	Nearly Met	2418	1.90	-84			Below	Near	Near	Near
BRIGHT, ASHLEIGH	1000021422	2016 Year	Met	2550	3.60	48	-0.49	-24	Near	Above	Near	Near
		2015 Year	Exceeded	2545	4.09	72			Above	Above	Near	Near

Student (Alicia Baker):

- ELA Scores
  - 2016 Scale Score = 2483
  - 2015 Scale Score = 2526





# Computation of a student's CHANGE scores in MMARS™

## Fractional Performance Level™

### CHANGE in FPL™

Smarter Balanced Scale Score Ranges  
Scale score ranges for English Language Arts/Literacy and Mathematics, by Content Area, Grade Level, and Achievement Level

English Language Arts/Literacy

Grade	Minimum Scale Score	Maximum Scale Score	Achievement Level Scale Score Range for Standard Not Met	Achievement Level Scale Score Range for Standard Nearly Met	Achievement Level Scale Score Range for Standard Met	Achievement Level Scale Score Range for Standard Exceeded
3	2114	2623	2114-2306	2367-2431	2432-2489	2490-2623
4	2131	2683	2131-2415	2416-2472	2473-2532	2533-2683
5	2201	2701	2201-2441	2442-2501	2502-2581	2582-2701
6	2210	2724	2210-2456	2457-2530	2531-2617	2618-2724
7	2258	2745	2258-2478	2479-2551	2552-2648	2649-2745
8	2288	2789	2288-2486	2487-2566	2567-2667	2668-2789
11	2299	2795	2299-2492	2493-2582	2583-2681	2682-2795

## Distance from Level 3

### CHANGE in DFL3

Smarter Balanced Scale Score Ranges  
Scale score ranges for English Language Arts/Literacy and Mathematics, by Content Area, Grade Level, and Achievement Level

English Language Arts/Literacy

Grade	Minimum Scale Score	Maximum Scale Score	Achievement Level Scale Score Range for Standard Not Met	Achievement Level Scale Score Range for Standard Nearly Met	Achievement Level Scale Score Range for Standard Met	Achievement Level Scale Score Range for Standard Exceeded
3	2114	2623	2114-2306	2367-2431	2432-2489	2490-2623
4	2131	2683	2131-2415	2416-2472	2473-2532	2533-2683
5	2201	2701	2201-2441	2442-2501	2502-2581	2582-2701
6	2210	2724	2210-2456	2457-2530	2531-2617	2618-2724
7	2258	2745	2258-2478	2479-2551	2552-2648	2649-2745
8	2288	2789	2288-2486	2487-2566	2567-2667	2668-2789
11	2299	2795	2299-2492	2493-2582	2583-2681	2682-2795

#### Change in FPL™ (Fractional Performance Level™) computation:

- 2483 (2016, Grade 5) is in the range for Standard Nearly Met (2442-2501)
  - The span of the Nearly Met range (to the next) is (2502-2442) = 60 points
  - Alicia's score of 2483 is 41 points above the minimum for Nearly Met Standard
  - Alicia's fractional position in the Nearly Met range is 41/60, or .68
  - Alicia's FPL™ for 2015 is 2.68 - Nearly Met, plus 68% of the distance to Met Standard
- 2526 (2015, Grade 4) is in the range for Standard Met (2473-2532)
  - The span of the Met Standard range (to the next) is (2533-2473) = 60 points
  - Alicia's score of 2526 is 53 points above the minimum for Met Standard
  - Alicia's fractional position in the Met Standard range is 53/60, or .88
  - Alicia's FPL™ for 2015 is 3.88 - Met Standard, plus 88% of the distance to Exceeded
- Alicia's Change in FPL™ from 2015 to 2016 = (-1.20)

#### Change in DFL3 (Distance From Level 3) computation:

- 2483 (2016, Grade 5) is in the range for Standard Nearly Met (2442-2501)
  - Level 3 minimum is 2502
  - Alicia's score of 2483 is 19 points BELOW 2502, so her 2016 DF3 = (-19)
- 2526 (2015, Grade 4) is in the range for Standard Met (2473-2532)
  - Level 3 minimum is 2473
  - Alicia's score of 2526 is 53 points ABOVE 2473, so her 2015 DF3 = (+53)
- Alicia's Change in DF3 from 2015 to 2016 = (-72)

Smarter Balanced Student Growth List (by Δ FPL™)  
Subject: ELA/Literacy

Testing Group: Grade: Grade 5

Reporting Group: Roster: 2015-16 rosters, District: Hometown USD, School: ARTHUR ELEMENTARY, Teacher: CHISUM, DANIELLE

Print/Save Report Export to Excel

Name	Student #	Test Admin	Δ Fractional PL™	Other Scores			Claim				
				PL	FPL™	Δ FPL™	Reading	Writing	Listening	Research/Inquiry	
BAKER, ALICIA	1000020954	2016 Year	+6-19% PL	2	2.60	-1.20	3.88	Met	Near	Met	Grow
BRIGHT, ASHLEIGH	1000021422	2016 Year	+0% PL or more	3	3.60	-0.48	4.09	Met	Above	Met	Grow
COOPER, CRYSTAN	1000016659	2016 Year	+0% PL or more	2	2.85	-0.55	3.40	Met	Met	Met	Grow
DALTON, KIM	1000021413	2016 Year	+0% PL or more	2	2.78	0.82	1.98	Met	Met	Met	Grow
DELONG, BRENDA	1000021415	2016 Year	+0-19% PL	2	2.90	1.00	1.90	Met	Met	Above	Grow
DICKS, CAITLIN	1000021471	2016 Year	+0-19% PL	2	2.40	0.97	2.33	Met	Near	Met	Grow

SBAC ELA Student Growth List (by Δ DF3)  
Subject: ELA/Literacy

Testing Group: Grade: Grade 5

Reporting Group: Roster: 2015-16 rosters, District: Hometown USD, School: ARTHUR ELEMENTARY, Teacher: CHISUM, DANIELLE

Print/Save Report Export to Excel

Name	Student #	Test Admin	Δ Dist From Lvl 3	Other Scores			Claim				
				PL	DF3	Δ DF3	Reading	Writing	Listening	Research/Inquiry	
BAKER, ALICIA	1000020954	2016 Year	Below	2	-19	-72	53	Met	Near	Met	Grow
BRIGHT, ASHLEIGH	1000021422	2016 Year	Dist Up	3	48	-24	72	Met	Above	Met	Grow
COOPER, CRYSTAN	1000016659	2016 Year	Dist Up	2	-9	-33	24	Met	Met	Met	Grow
DALTON, KIM	1000021413	2016 Year	Dist Up	2	-13	54	-57	Met	Met	Met	Grow
DELONG, BRENDA	1000021415	2016 Year	Maintained	2	-6	79	-85	Met	Met	Above	Grow
DICKS, CAITLIN	1000021471	2016 Year	Maintained	2	-36	2	-38	Met	Near	Met	Grow



## SBAC Fractional Performance Level™ (FPL™) Year-over-Year Change in FPL™ (ΔFPL™)



### FPL™ - Fractional Performance Level™

This is our own proprietary measure, which we believe is more valuable and precise than PD3 or DF3. Since the scale score ranges differ by grade level, a certain distance from Level 3 will have slightly different meanings at, for example, Grade 4 and Grade 5. For the FPL™, we have interpolated each student's scale score between the highest and lowest obtainable scale scores, for their grade level, for their Achievement Level (1-4), and computed the fractional distance (in hundredths) of their position between the bottom and top of their band. This fraction is relative to the grade-level, and therefore comparable between grade levels. This gives you the ability to see positive and negative "movement" within achievement levels, not readily apparent when looking at a broad score of 1-4. More detail about the computational methods is available by request.

We've included some examples on this flyer, showing CHANGE. Each student is categorized into one of six bands, which represent degrees of change, both positive and negative. The summary data can be juxtaposed by all the typical Jux™ parameters. The lists can be alpha or ranked, and show the achievement level (1-4) as well as the FPL™, prior year FPL™, and change in FPL™ (ΔFPL™).

Change values allow an administrator to see the **Instructional Impact over time**, reported at the school, grade, and teacher level.

## SBAC ± Distance From Level 3 (DFL3) Year-over-Year Change in DFL3 (ΔDFL3)



### DFL3 - ± Distance From Level 3

- This parallels the method CDE is using for the CA Academic Indicator, but we also compute this at the pupil level, and for each group and subgroup. We measure the change between testing periods, for all pupils that have scores for each year.
- Note that our Average Point Difference (APD) summary uses the underlying DFL3 scores, and is the same metric now being computed at the school level by CCSA for Charter Schools. This differs from the Academic Indicator, only in that the CDE uses a variety of special inclusion/exclusion rules, as dictated by the State Board of Education. DFL3 does not apply exclusions; every student with scores is included.

We've included some examples on this flyer, showing CHANGE. Each student is categorized into one of five bands, using the same cut points as the CA Academic Indicator, showing degrees of change, both positive and negative. The summary data can be juxtaposed by all the typical Jux™ parameters. The lists can be alpha or ranked, and show the achievement level (1-4) as well as the DFL3, prior year DFL3, and change in DFL3 (ΔDFL3).

Change values allow an administrator to see the **Instructional Impact over time**, reported at the school, grade, and teacher level.



# Pupil Achievement with Growth Scores ( $\Delta$ FPL™, $\Delta$ DFL3) - Multi Year Classroom List



## SBAC Multi-Subject Student Growth List

Testing Group  
**Grade:** Grade 5

Reporting Group  
**Roster:** 2016-17 rosters  
**District:** Hometown USD  
**School:** AVOGADRO ELEMENTARY  
**Teacher:** DAVIS, KIRSTIE

Name	Student #	Test Admin	ELA						Math					
			Achievement Level	SS	FPL™	$\Delta$ FPL™	DFL3	$\Delta$ DFL3	Achievement Level	SS	FPL™	$\Delta$ FPL™	DFL3	$\Delta$ DFL3
BEAM, JIM	1000005101	2017 Yr	Exceeded	2598	4.13	-0.06	96	11	Exceeded	2674	4.78	0.33	146	32
		2016 Yr	Exceeded	2558	4.19	-0.37	85	-48	Exceeded	2599	4.45	-0.11	114	-19
		2015 Yr	Exceeded	2565	4.56		133		Exceeded	2569	4.56		133	
BLACK, LESLIE	1000005369	2017 Yr	Exceeded	2591	4.08	-0.36	89	-28	Exceeded	2592	4.11	0.07	64	-4
		2016 Yr	Exceeded	2590	4.44	-0.02	117	-3	Exceeded	2553	4.04	-0.09	68	-13
		2015 Yr	Exceeded	2552	4.46		120		Exceeded	2517	4.13		81	
BLACK, SAMMY	1000005099	2017 Yr	Met	2537	3.44	-0.23	35	-5	Nearly Met	2523	2.93	-0.04	-5	-3
		2016 Yr	Met	2513	3.67	0.20	40	13	Nearly Met	2483	2.97	-0.60	-2	-39
		2015 Yr	Met	2459	3.47		27		Met	2473	3.57		37	
BOOKOUT, MICHAEL	1000005382	2017 Yr	Met	2557	3.69	0.87	55	65	Met	2551	3.45	0.45	23	23
		2016 Yr	Nearly Met	2463	2.82	-0.75	-10	-43	Met	2485	3.00	-0.86	0	-56
		2015 Yr	Met	2465	3.57		33		Met	2492	3.86		56	
BOYETT, BENJAMIN	1000000937	2017 Yr	Exceeded	2701	4.99	0.53	199	79	Exceeded	2638	4.48	-0.09	110	-17
		2016 Yr	Exceeded	2593	4.46		120		Exceeded	2612	4.57		127	
BRANCECUM, WILL	1000005149	2017 Yr	Exceeded	2701	4.99	0.25	199	42	Exceeded	2676	4.80	0.44	148	44
		2016 Yr	Exceeded	2630	4.74	-0.15	157	-20	Exceeded	2589	4.36	-0.63	104	-81
		2015 Yr	Exceeded	2609	4.89		177		Exceeded	2621	4.99		185	
CHILDRESS, TAYLOR	1000005322	2017 Yr	Exceeded	2701	4.99	0.00	199	9	Exceeded	2700	4.99	0.00	172	-2
		2016 Yr	Exceeded	2663	4.99	0.28	190	37	Exceeded	2659	4.99	0.22	174	16
		2015 Yr	Exceeded	2585	4.71		153		Exceeded	2594	4.77		158	
DAILY, AUSTIN	1000005141	2017 Yr	Met	2506	3.05	0.00	4	1	Met	2564	3.71	0.93	36	52
		2016 Yr	Met	2476	3.05	-0.55	3	-32	Nearly Met	2469	2.78	-1.40	-16	-103
		2015 Yr	Met	2467	3.60		35		Exceeded	2523	4.18		87	
EAGLESON, MATT	1000005409	2017 Yr	Met	2510	3.10	0.49	8	30	Met	2575	3.92	-0.24	47	-35
		2016 Yr	Nearly Met	2451	2.61	-0.17	-22	-8	Exceeded	2567	4.16	0.54	82	42
		2015 Yr	Nearly Met	2418	2.78		-14		Met	2476	3.62		40	
ETHEREDGE, BRYAN	1000001113	2017 Yr	Nearly Met	2477	2.58	-0.03	-25	-3	Exceeded	2639	4.49	1.19	111	92
		2016 Yr	Nearly Met	2451	2.61		-22		Met	2504	3.30		19	

# Pupil Change in Fractional Performance Level™ - Single Year Ranked Classroom List



## SBAC Student Growth List (by ± FPL™ Change)

Subject: Math

Testing Group	
<b>Year:</b>	2016-17
<b>Term:</b>	2017 Yr
<b>Grade:</b>	Grade 4

Reporting Group	
<b>Roster:</b>	2016-17 rosters
<b>District:</b>	Hometown USD
<b>School:</b>	AVOGADRO ELEMENTARY
<b>Teacher:</b>	MAJOR, DAVID

Name	Student #	Test Admin	Δ Fractional PL™	Other Scores				Claim		
				PL	FPL™	Prior FPL™	ΔFPL™	Conc Proc	Prob Solve	Comm Reas
ABLES, ADAM	1000000596	2017 Yr	-40% PL or more	3	3.36	4.42	-1.06	Near	Above	Near
WARD, KARSON	1000004820	2017 Yr	-40% PL or more	3	3.30	3.83	-0.53	Near	Near	Near
STANCIL, JAMES	1000000835	2017 Yr	-40% PL or more	3	3.05	3.48	-0.43	Near	Near	Near
WOODRUM, KEITH	1000004830	2017 Yr	-40% PL or more	3	3.70	4.13	-0.43	Near	Above	Above
GRANT, CHANCES	1000000781	2017 Yr	-20-39% PL	4	4.67	4.87	-0.20	Above	Above	Above
GUTIERREZ, BLAKE	1000000901	2017 Yr	-1-19% PL	2	2.23	2.40	-0.17	Below	Below	Near
DALTON, LANCE	1000004837	2017 Yr	-1-19% PL	4	4.09	4.25	-0.16	Above	Near	Above
SCOTT, RICHARD	1000000519	2017 Yr	-1-19% PL	3	3.09	3.20	-0.11	Near	Near	Above
MONTGOMERY, NICK	1000000774	2017 Yr	-1-19% PL	3	3.94	4.02	-0.08	Above	Above	Above
MADER, COLTER	1000004845	2017 Yr	-1-19% PL	4	4.22	4.25	-0.03	Above	Above	Above
ROOK, BRAXTON	1000000871	2017 Yr	-1-19% PL	4	4.28	4.31	-0.03	Above	Above	Above
SANFORD, NILES	1000004921	2017 Yr	-1-19% PL	1	1.97	1.99	-0.02	Below	Near	Below
ELLS, CHARLEY	1000000785	2017 Yr	+0-19% PL	4	4.89	4.88	0.01	Above	Above	Above
BYERS, ALLEN	1000000761	2017 Yr	+0-19% PL	4	4.16	4.11	0.05	Above	Above	Near
GOOCHER, JAKE	1000000870	2017 Yr	+0-19% PL	3	3.83	3.77	0.06	Above	Near	Above
NORDIN, CORY	1000000902	2017 Yr	+0-19% PL	4	4.09	4.02	0.07	Above	Above	Above
WELCH, JIM	1000004732	2017 Yr	+0-19% PL	3	3.75	3.66	0.09	Above	Above	Near
NOBLETT, ROBERT	1000004747	2017 Yr	+0-19% PL	3	3.42	3.28	0.14	Near	Near	Near
RACE, BEN	1000004923	2017 Yr	+0-19% PL	4	4.14	4.00	0.14	Above	Near	Above
NOBLETT, KINTA	1000004743	2017 Yr	+20-39% PL	3	3.69	3.42	0.27	Near	Near	Above
COTTRELL, AARON	1000000824	2017 Yr	+40% PL or more	4	4.65	4.24	0.41	Above	Above	Above
ERNST, LOGAN	1000000530	2017 Yr	+40% PL or more	3	3.97	3.55	0.42	Near	Above	Above
BALDWIN, TODD	1000004894	2017 Yr	+40% PL or more	3	3.55	3.09	0.46	Near	Above	Above
CLEMONS, RONNIE	1000004746	2017 Yr	+40% PL or more	4	4.26	3.69	0.57	Above	Above	Above
WILCOX, EDWIN	1000000780	2017 Yr	+40% PL or more	2	2.42	1.72	0.70	Below	Near	Near
BASS, JARRED	1000000689	2017 Yr	+40% PL or more	2	2.97	2.22	0.75	Near	Near	Near
OLSON, JACK	1000000823	2017 Yr	+40% PL or more	2	2.55	1.67	0.88	Below	Near	Near

# Year-over-Year Change in Fractional Performance Level™

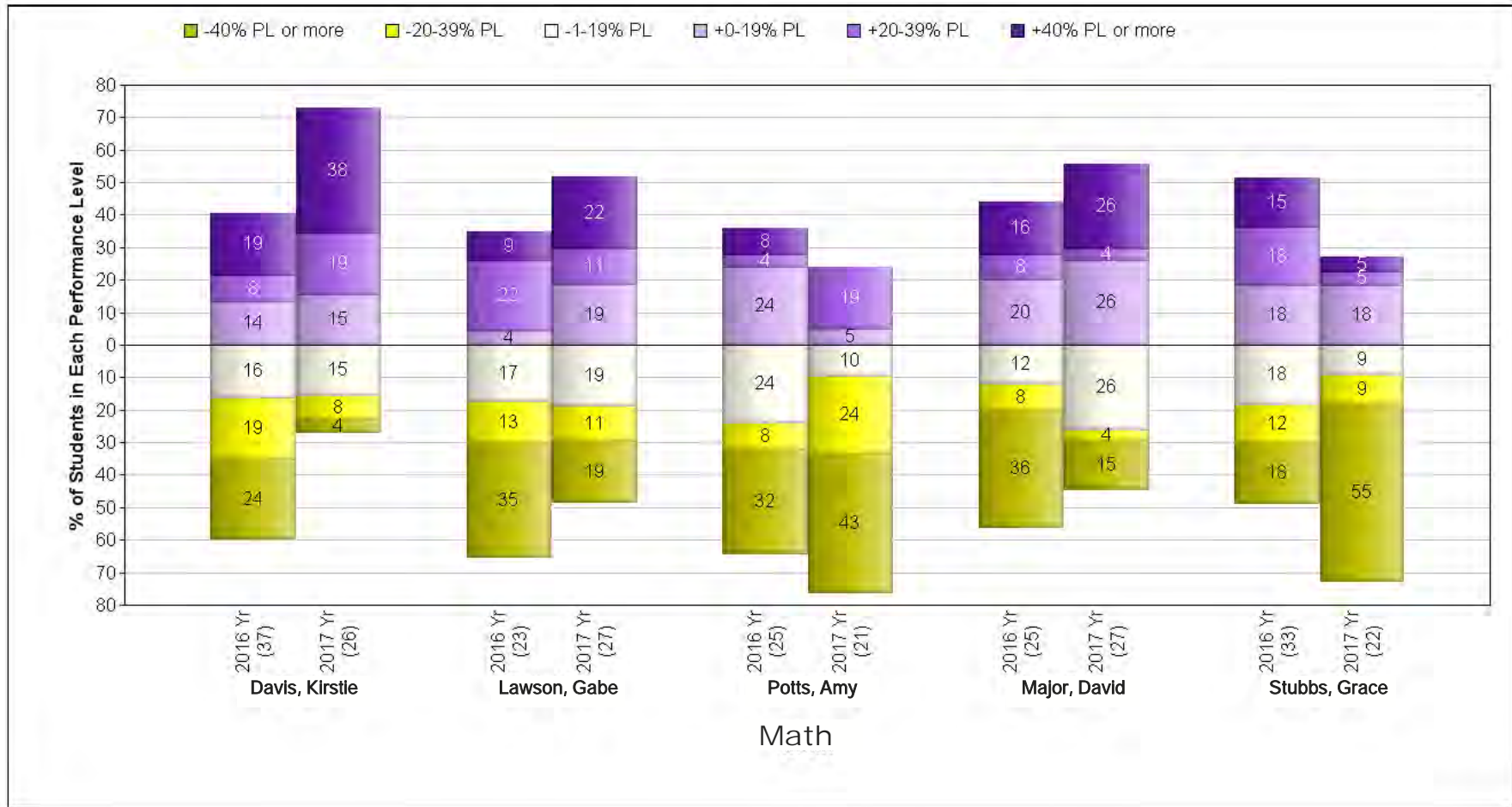


## SBAC ± Fractional PL™ Change

by Teachers and Years

Grade: All Grades  
Testing Group: All Grades

Roster: 2016-17 rosters  
District: Hometown USD  
School: AVOGADRO ELEMENTARY  
Reporting Group



# Pupil Change in Distance from Level 3 – Multi Year Classroom List



## SBAC Student Growth List (by ± DFL3 Change)

Subject: Math

Testing Group  
Grade: Grade 5

Reporting Group  
Roster: 2016-17 rosters  
District: Hometown USD  
School: AVOGADRO ELEMENTARY  
Teacher: DAVIS, KIRSTIE

Name	Student #	Test Admin	Δ Dist From Level 3	Other Scores				Claim		
				PL	DFL3	Prior DFL3	ΔDFL3	Conc Proc	Prob Solve	Comm Reas
BEAM, JIM	1000005101	2017 Yr	Incr Sig	4	146	114	32	Above	Above	Above
		2016 Yr	Decl Sig	4	114	133	-19	Above	Above	Above
BLACK, LESLIE	1000005369	2017 Yr	Declined	4	64	68	-4	Near	Near	Above
		2016 Yr	Declined	4	68	81	-13	Above	Above	Above
BLACK, SAMMY	1000005099	2017 Yr	Declined	2	-5	-2	-3	Near	Above	Near
		2016 Yr	Decl Sig	2	-2	37	-39	Near	Near	Near
BOOKOUT, MICHAEL	1000005382	2017 Yr	Incr Sig	3	23	0	23	Near	Above	Near
		2016 Yr	Decl Sig	3	0	56	-56	Near	Near	Near
BOYETT, BENJAMIN	1000000937	2017 Yr	Decl Sig	4	110	127	-17	Above	Above	Above
BRANCECUM, WILL	1000005149	2017 Yr	Incr Sig	4	148	104	44	Above	Above	Above
		2016 Yr	Decl Sig	4	104	185	-81	Above	Above	Above
CHILDRESS, TAYLOR	1000005322	2017 Yr	Maintained	4	172	174	-2	Above	Above	Above
		2016 Yr	Incr Sig	4	174	158	16	Above	Above	Above
DAILY, AUSTIN	1000005141	2017 Yr	Incr Sig	3	36	-16	52	Near	Above	Above
		2016 Yr	Decl Sig	2	-16	87	-103	Near	Near	Near
EAGLESON, MATT	1000005409	2017 Yr	Decl Sig	3	47	82	-35	Above	Near	Near
		2016 Yr	Incr Sig	4	82	40	42	Above	Above	Above
ETHEREDGE, BRYAN	1000001113	2017 Yr	Incr Sig	4	111	19	92	Above	Above	Above
FUTTERER, TONY	1000005090	2017 Yr	Increased	4	83	71	12	Above	Above	Near
		2016 Yr	Decl Sig	4	71	152	-81	Above	Near	Above
GRIMES, COLBY	1000005261	2017 Yr	Increased	1	-90	-103	13	Below	Below	Near
		2016 Yr	Decl Sig	1	-103	-55	-48	Below	Below	Below
HANEY, MIK	1000005207	2017 Yr	Incr Sig	4	132	85	47	Above	Above	Above
		2016 Yr	Decl Sig	4	85	168	-83	Above	Above	Above
KOHEEL, BRADLEE	1000005361	2017 Yr	Maintained	4	65	63	2	Above	Above	Near
		2016 Yr	Decl Sig	3	63	100	-37	Above	Above	Above
NORDIN, RITCHIE	1000000928	2017 Yr	Incr Sig	2	-54	-75	21	Below	Near	Below
SHELTON, CHARLIE	1000005172	2017 Yr	Incr Sig	4	142	85	57	Above	Above	Above
		2016 Yr	Declined	4	85	96	-11	Near	Above	Above
SLAGLE, COLTER	1000000942	2017 Yr	Incr Sig	4	110	81	29	Above	Above	Near



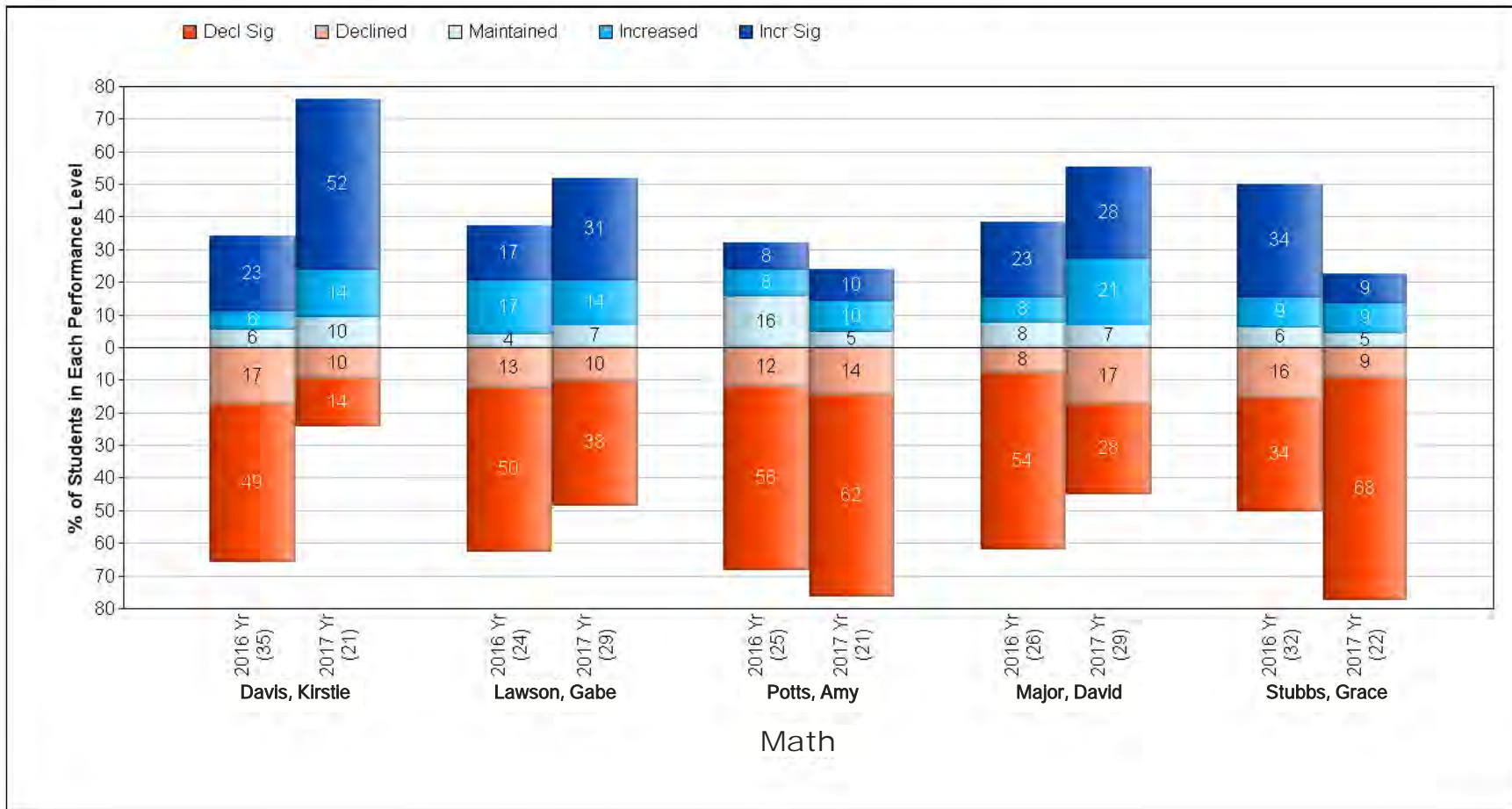
# Year-over-Year Change in Pupil Distance from Level 3



## SBAC ± Distance From Level 3 Change by Teachers and Years

Testing Group  
Grade: All Grades

Reporting Group  
Roster: 2016-17 rosters  
District: Hometown USD  
School: AVOGADRO ELEMENTARY



Multiple



Measures

[www.k12multiplemeasures.com](http://www.k12multiplemeasures.com)

530-295-1262

[tech@multiplemeasures.net](mailto:tech@multiplemeasures.net)