# End of Year District Data Presentation 

Presented to School Committee By Vy Vu, District Data Specialist

June 24, 2015

## Agenda

- Revisiting District Next Steps
- District Data Dashboards
- Overall look at the demographic profile of Milton Public Schools
- Enrollment, SPED, ELL, Low Income, Race, French Immersion
- Staff demographics: Race, Gender
- Topics of interest:
- College matriculation
- Athletics
- Standardized Assessments
- 2014 MCAS
- 2013-2014 PSAT, SAT \& AP
- Internal Assessments
- Examples and highlights from Elementary, Middle, and High
- Next Steps


## Revisiting District Next Steps

## Next Steps

(as outlined in April Internal Assessments presentation to the School Committee)

- Work with all disciplines to streamline data collection for common assessments and determine which measures to capture at the district level
- Evaluate district data systems to determine how to maximize current systems to hold data or whether other tools are needed
- Work with Dr. Angela Burke to train staff on relevant technology tools (Google Drive, Google Classrooms, Chromebooks etc.)
- Work with curriculum coordinators to support data analysis practices at all grade levels
- Develop dashboards that show common data for each school


## District Data Dashboards

$($ Develop dashboards that show common data for each school

## District Data Dashboards

- Why is there a need for dashboards?
- A lot of systems, a lot of data, but no way to easily and systematically look at what data we have
- Dashboards provide a uniform look so school leaders can learn to "read" data in the same way
- Eliminate the inefficiency of reproducing the same reports or graphs every time there is updated data
- Time and energy can be used to analyze the data and figure out action plans to address issues that arise through the data
- All demographic data for the district dashboards are drawn from the Admin Plus student information system, along with FamilyID and the MA DESE website.


## District Data Dashboards: Enrollment

## M Milton Public Schools: Demographics

Grade Level Enrollment by Year: District

| Grade Level | 2011-12 | 2012-13 | 2013-14 | 2014-15 |
| :---: | :---: | :---: | :---: | :---: |
| PK | \| 3\% (103) | 3\% (107) | 3\% (112) | 3\% (115) |
| OK | \| $8 \%$ (307) | 8\% (324) | 8\% (319) | 9\% (351) |
| 01 | \| 9\% (339) | -8\% (330) | 9\% (341) | \| $8 \%$ (344) |
| 02 | -9\% (348) | -8\% (337) | -8\% (322) | - $9 \%$ (347) |
| 03 | 8\% (329) | - $9 \%$ (350) | 8\% (330) | 8\% (326) |
| 04 | \| $7 \%$ (290) | -8\% (329) | -9\% (340) | -8\% (330) |
| 05 | \| $8 \%$ (310) | \| $8 \%$ (303) | 8\% (331) | - $8 \%$ (344) |
| 06 | -8\% (330) | - $8 \%$ (327) | \| $8 \%$ (310) | - $8 \%$ (326) |
| 07 | \| $7 \%$ (263) | -8\% (315) | \| $7 \%$ (295) | \| $7 \%$ (291) |
| 08 | \| $7 \%$ (273) | \| $7 \%$ (270) | -8\% (313) | \| $7 \%$ (286) |
| 09 | \| $6 \%$ (239) | \| $6 \%$ (245) | \| $6 \%$ (252) | \| $7 \%$ (264) |
| 10 | \| $6 \%$ (235) | \| $6 \%$ (238) | \| $6 \%$ (247) | \| $6 \%$ (246) |
| 11 | \| $7 \%$ (275) | \| $6 \%$ (234) | \| $6 \%$ (233) | \| $6 \%$ (237) |
| 12 | \| $7 \%$ (264) | - $7 \%$ (290) | \| $6 \%$ (243) | \| $6 \%$ (242) |
| Grand .. | 100\% (3,905) | 100\% $(3,999)$ | 100\% (3,988) | 100\% (4,049) |

## District Data Dashboards: Enrollment

Milton Public Schools: Demographics
Total Enrollment by Year


## District Data Dashboards: Enrollment

## Milton Public Schools: Demographics

Total Enrollment by Year: by School


## District Data Dashboards: SPED

## Milton Public Schools: Demographics

SPED Enrollment by Year: District

SPED Status
$\square \mathrm{N}$
$\mathrm{Y}(6-21)$
$\square \mathrm{Y}(3-5)$

Note: SPED status here refers only to students with IEPs. This information is culled from the March SIMS report to the state.

SPED Enrollment by Year: by School


## District Data Dashboards: English Language Learners

## Milton Public Schools: Demographics

English Language Learner: District


English Language Learner: by School


## District Data Dashboards: Low Income

## Milton Public Schools: Demographics

Low Income Enrollment by Year: District


Low Income Enrollment by Year: by School


## District Data Dashboards: Race

## Milton Public Schools: Demographics



Race - by school by year


## District Data Dashboards: Race

## Milton Public Schools: Demographics

Race - District


Race \& Low Income - District



Race - by School

| Race Category | $\begin{gathered} \text { COLLICOT } \\ \text { ELEMENTARY } \\ \text { SCHOOL } \end{gathered}$ | CUNNINGHAM ELEMENTARY SCHOOL | GLOVER SCHOOL | TUCKER SCHOOL | PIERCE MIDDLE SCHOOL | $\begin{aligned} & \text { MILTON HIGH } \\ & \text { SCHOOL } \end{aligned}$ | MHS - SPECIAL SERVICES |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| African American | 4\% (24) | 7\% (35) | 9\% (48) | $38 \%$ (152) | 17\% (151) | 25\% (235) | 17\% (13) |
| Asian | 6\% (42) | 6\% (31) | 4\% (25) | 5\% (20) | 6\% (56) | 6\% (56) | 4\% (3) |
| Hispanic or Latino | 2\% (11) | 2\% (11) | 4\% (24) | 8\% (32) | 4\% (38) | 4\% (37) | 1\% (1) |
| Other (incl. <br> Multiracial) | $2 \%(16)$ | 3\% (13) | 4\% (25) | 7\% (27) | 5\% (45) | 4\% (38) | 4\% (3) |
| White | 86\% (574) | 82\% (410) | 78\% (437) | 42\% (166) | $67 \%$ (600) | 62\% (593) | 74\% (57) |

## District Data Dashboards: French Immersion

## Milton Public Schools: Demographics

Note: For graphs looking at the French Immersion program, pre-K and Kindergarten students were not counted.
French Immersion Program Enrollment by Year: District


Race \& French Immersion: District


201 out of 1,401 students in French Immersion (or 14\%) are minority students. Minority students composed of about $30 \%$ of students in the district.

Low Income \& French Immersion: District
Low Income


63 out of 1,401 students in French Immersion (or 4\%) are low income. The percentage of low income students in the district is $13 \%$.

## District Data Dashboards: French Immersion

## Milton Public Schools: Demographics

Note: For graphs looking at the French Immersion program, pre-K and Kindergarten students were not counted.

French Immersion Program Enrollment: Elementary, Middle, High


French Immersion Program Enrollment by Year: by School


## District Data Dashboards: Staff, Race

## Milton Public Schools: Staff Demographics

Race of Staff - District


Race KeyWhite
Non-White
Note: Staff reported here are those who are also required to be reported to the state on the mandatory EPIMS report. These staff include teachers, aides, administrators, and administrative assistants/central office staff. These numbers do not include custodial, after school, food services or athletics staff.

Race of Staff - by School


## District Data Dashboards: Staff, Gender

## Milton Public Schools: Staff Demographics

Gender - District



## Graduation Rate

## Cohort 2014 Graduation Rates

4-Year Graduation Rate (2014)

| 4-Year Graduation Rate (2014) |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Student Group | \# in Cohort | \% Graduated | \% Still in <br> School | \% Nonad <br> Completers | \% GED | \% Dropped <br> Out | \% <br> Permanently <br> Excluded |
| All Students | 233 | 94.0 | 4.7 | 0.0 | 0.0 | 1.3 |  |
| Male | 134 | 92.5 | 6.0 | 0.0 | 0.0 | 1.5 | 0.0 |
| Female | 99 | 96.0 | 3.0 | 0.0 | 0.0 | 1.0 | 0.0 |
| ELL | 4 | - | - | - | - | - | - |
| Students w/disabilities | 29 | 65.5 | 31.0 | 0.0 | 0.0 | 3.4 | 0.0 |
| Low income | 52 | 94.2 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| High needs | 77 | 87.0 | 11.7 | 0.0 | 0.0 | 1.3 | 0.0 |
| Afr. Amer./Black | 55 | 78.2 | 16.4 | 0.0 | 0.0 | 5.5 | 0.0 |
| Asian | 14 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hispanic/Latino | 10 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Amer. Ind. or Alaska Nat. | - | - | - | - | - | - | - |
| White | 150 | 98.7 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| Nat. Haw. or Pacif. Isl. | - | - | - | - | - | - | - |
| Multi-race, Non-Hisp./Lat. | 4 | - | - | - | - | - | - |

Note: Data obtained from the Massachusetts Department of Elementary and Secondary Education, http://profiles.doe.mass.edu/grad/grad_report.aspx?orgcode=01890000\&orgtypecode=5\&

## District Data Dashboards: College Matriculation

## Milton Public Schools: College Matriculation

Summary of placement type


## District Data Dashboards: College Matriculation

## Milton Public Schools: College Matriculation



## District Data Dashboards: College Matriculation

## Milton Public Schools: College Matriculation

by Low Income


## District Data Dashboards: College Matriculation

## Milton Public Schools: College Matriculation

by Gender


## District Data Dashboards: Athletics

## Milton Public Schools: Athletics

SY14-15 Milton High School - Breakdown by Race


SY14-15 Sports Participation by Race (distinct students)


Athletes as Proportion of MHS

| -African <br> American | Asian | Hispanic/ <br> Latino | Other (incl. <br> Multiracial) | White | Total |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Non-athletes | 127 | 18 | 13 | 17 | 159 | 334 |
| Athletes | 108 | 38 | 24 | 21 | 434 | 625 |
| MHS Total | 235 | 56 | 37 | 38 | 593 | 959 |
| Athletes as proportion <br> of MHS Total | 0.46 | 0.68 | 0.65 | 0.55 | 0.73 | 0.65 |

Overall, 65\% of MHS students play sports. African American students have the lowest percentage of sports participation at 46\%.

## District Data Dashboards: Athletics

## Milton Public Schools: Athletics

Race Participation by Sport

| Season | Sport | African <br> American | Asian | Hispanic or <br> Latino | Other (incl. <br> Multiracial) | White |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: | Grand Total

Year


Season
Fall

Note: Highlighted sports have 30\% or more diversity.

## District Data Dashboards: Athletics

## Milton Public Schools: Athletics

Race Participation by Sport

| Season | Sport | African American | Asian | Hispanic or Latino | Other (incl. <br> Multiracial) | White | Grand Total | 2014-15 | $\checkmark$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Winter | Basketball (Boys) | 41\% (29) | 3\% (2) | 3\% (2) | 4\% (3) | 49\% (35) | 100\% (71) | Season |  |
|  | Basketball (Girls) | 13\% (6) | 2\% (1) |  | 7\% (3) | 78\% (35) | 100\% (45) | Winter | $\checkmark$ |
|  | Cheerleading (Co-Ed) | 44\% (14) |  | 3\% (1) |  | 53\% (17) | 100\% (32) |  |  |
|  | Ice Hockey (Boys) |  | 2\% (1) | 2\% (1) |  | 95\% (41) | 100\% (43) |  |  |
|  | Ice Hockey (Girls) |  |  |  |  | 100\% (21) | 100\% (21) |  |  |
|  | Indoor Track (Boys) | 30\% (14) | 9\% (4) |  | 6\% (3) | 55\% (26) | 100\% (47) |  |  |
|  | Indoor Track (Girls) | 23\% (13) | 11\% (6) | 5\% (3) | 2\%(1) | 60\% (34) | 100\% (57) |  |  |
|  | Skiing (Co-Ed) | 5\% (1) | 5\% (1) |  | 5\% (1) | 85\% (17) | 100\% (20) |  |  |
|  | Wrestling | 10\% (3) |  | 6\% (2) | 10\% (3) | 74\% (23) | 100\% (31) |  |  |
| Grand T |  | 22\% (80) | 4\% (15) | 2\% (9) | 4\% (14) | 68\% (249) | 100\% (367) |  |  |

Note: Highlighted sports have 30\% or more diversity.

## District Data Dashboards: Athletics

## Milton Public Schools: Athletics

Race Participation by Sport

| Season | Sport | African American | Asian | Hispanic or Latino | Other (incl. Multiracial) | White | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Spring | Baseball | 2\% (1) |  | 2\% (1) | 2\% (1) | 95\% (52) | 100\% (55) |
|  | Crew (Boys) |  |  |  |  | 100\% (33) | 100\% (33) |
|  | Crew (Girls) | 3\% (1) | 6\% (2) | 6\% (2) | 6\% (2) | 78\% (25) | 100\% (32) |
|  | Lacrosse (Boys) | 19\% (9) | 2\% (1) | 4\% (2) | 2\% (1) | 72\% (34) | 100\% (47) |
|  | Lacrosse (Girls) |  | 2\% (1) |  | 4\% (2) | 93\% (43) | 100\% (46) |
|  | Outdoor Track (Boys) | 38\% (14) | 5\% (2) | 8\% (3) | 3\% (1) | 46\% (17) | 100\% (37) |
|  | Outdoor Track (Girls) | 33\% (17) | 12\% (6) | 4\% (2) |  | 51\% (26) | 100\% (51) |
|  | Rugby | 20\% (11) | 2\% (1) | 4\% (2) | 5\% (3) | 69\% (38) | 100\% (55) |
|  | Softball | 7\% (3) |  | 5\% (2) |  | 89\% (39) | 100\% (44) |
|  | Tennis (Boys) | 27\% (4) | 47\% (7) |  |  | 27\% (4) | 100\% (15) |
|  | Tennis (Girls) | 20\% (5) | 32\% (8) | 16\% (4) |  | 32\% (8) | 100\% (25) |
| Grand Total |  | 15\% (65) | 6\% (28) | 4\% (18) | 2\% (10) | 73\% (319) | 100\% (440) |

Year
2014-15

Season
Spring

Note: Highlighted sports have 30\% or more diversity.

## District Data Dashboards: Athletics

## Milton Public Schools: Athletics

Sports Participation by Grade Level


## Standardized Assessment Data

## ELA MCAS: District Achievement

MPS has consistently outperformed the state on the ELA MCAS with around 80\% of students scoring Proficient or Above.


|  | 2011 |  | 2012 |  | 2013 |  | 2014 |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | District | State | District | State | District | State | District | State |
| Advanced | $26 \%$ | $17 \%$ | $30 \%$ | $19 \%$ | $28 \%$ | $19 \%$ | $25 \%$ | $18 \%$ |
| Proficient | $56 \%$ | $52 \%$ | $52 \%$ | $50 \%$ | $54 \%$ | $50 \%$ | $56 \%$ | $51 \%$ |
| Needs | $16 \%$ | $23 \%$ | $14 \%$ | $22 \%$ | $15 \%$ | $23 \%$ | $14 \%$ | $22 \%$ |
| Improvement |  |  |  |  |  |  |  |  |
| Warning/Failing | $3 \%$ | $8 \%$ | $4 \%$ | $9 \%$ | $4 \%$ | $8 \%$ | $5 \%$ | $8 \%$ |
| N Students | 2,059 | 497,258 | 2,012 | 497,549 | 2,112 | 496,175 | 2,137 | 488,744 |
| CPI | 93.5 | 87.2 | 93.3 | 86.7 | 93.3 | 86.8 | 92.6 | 86.7 |
| Median SGP | 61 | 50 | 61 | 50 | 56 | 51 | 51 | 50 |

## Math MCAS: District Achievement

MPS has also consistently outperformed the state on the Math MCAS with just shy of 80\% of students scoring Proficient or Above.


|  | 2011 |  | 2012 |  | 2013 |  | 2014 |  |
| ---: | ---: | :---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | District | State | District | State | District | State | District | State |
| Advanced | $38 \%$ | $24 \%$ | $43 \%$ | $27 \%$ | $44 \%$ | $28 \%$ | $42 \%$ | $28 \%$ |
| Proficient | $39 \%$ | $34 \%$ | $33 \%$ | $32 \%$ | $33 \%$ | $33 \%$ | $34 \%$ | $32 \%$ |
| Needs | $17 \%$ | $27 \%$ | $18 \%$ | $26 \%$ | $17 \%$ | $25 \%$ | $18 \%$ | $25 \%$ |
| Improvement |  |  |  |  |  |  |  |  |
| Warning/Failing | $5 \%$ | $15 \%$ | $6 \%$ | $15 \%$ | $6 \%$ | $14 \%$ | $6 \%$ | $15 \%$ |
| N Students | 2,059 | 497,712 | 2,016 | 497,984 | 2,112 | 497,090 | 2,137 | 490,288 |
| CPI | 90.6 | 79.9 | 90.5 | 79.9 | 90.5 | 80.8 | 89.8 | 80.3 |
| Median SGP | 65 | 50 | 59 | 50 | 55 | 51 | 48 | 50 |

## Science MCAS: District Achievement

In Science, MPS also outperformed the state consistently, and the percentage of students scoring Proficient or Above is increasing every year from 59\% in 2011 to 65\% in 2014.


|  | 2011 |  | 2012 |  | 2013 |  | 2014 |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | District | State | District | State | District | State | District | State |
| Advanced | $15 \%$ | $13 \%$ | $21 \%$ | $17 \%$ | $26 \%$ | $16 \%$ | $24 \%$ | $17 \%$ |
| Proficient | $44 \%$ | $39 \%$ | $42 \%$ | $37 \%$ | $38 \%$ | $37 \%$ | $41 \%$ | $38 \%$ |
| Needs | $36 \%$ | $35 \%$ | $30 \%$ | $32 \%$ | $28 \%$ | $35 \%$ | $28 \%$ | $33 \%$ |
| Improvement |  |  |  |  |  |  |  |  |
| Warning/Failing | $5 \%$ | $13 \%$ | $7 \%$ | $13 \%$ | $8 \%$ | $12 \%$ | $7 \%$ | $12 \%$ |
| N Students | 855 | 211,422 | 788 | 211,464 | 790 | 209,573 | 846 | 211,440 |
| CPI | 83.6 | 77.6 | 85.3 | 78.6 | 84.4 | 79 | 86.4 | 79.6 |

## 2014 ELA MCAS: District Growth



## 2014 ELA MCAS: District Growth

|  | Median SGP | N Students <br> $($ SGP) | $\%$ Proficient or <br> Higher | N Students <br> (Ach. Level) |
| :---: | ---: | ---: | ---: | ---: |
| All Grades | 51 | 1,699 | 81 | 2,137 |
| Grade 04 | 47 | 325 | 66 | 340 |
| Grade 05 | 64 | 319 | 82 | 328 |
| Grade 06 | 48 | 279 | 84 | 306 |
| Grade 07 | 43 | 283 | 88 | 293 |
| Grade 08 | 49.5 | 292 | 87 | 307 |
| Grade 10 | 53 | 201 | 95 | 235 |

Median student growth percentile (SGP) is not calculated if the number of students with SGP is less than 20 .

## 2014 Math MCAS: District Growth



## 2014 Math MCAS: District Growth

|  | Median SGP | N Students <br> (SGP) | \% Proficient or <br> Higher | N Students <br> (Ach. Level) |
| :--- | :--- | ---: | ---: | ---: | ---: |
| All Grades | 48 | 1,704 | 75 | 2,137 |
| Grade 04 | 46 | 324 | 72 | 339 |
| Grade 05 | 55 | 319 | 79 | 326 |
| Grade 06 | 47 | 281 | 78 | 308 |
| Grade 07 | 41.5 | 284 | 64 | 294 |
| Grade 08 | 46 | 294 | 66 | 307 |
| Grade 10 | 54 | 202 | 90 | 235 |

Median student growth percentile (SGP) is not calculated if the number of students with SGP is less than 20 .

## 2013-14 PSAT, SAT \& AP: Number of Test Takers

OVERVIEW: Number of Students Taking SAT, SAT Subject Tests, AP and PSAT/NMSQT.


Note: Slide taken from CollegeBoard's "School Integrated Summary" 2013-2014

## 2013-14 PSAT, SAT \& AP:

## Test Takers as Percent of Class

Class Participation in the SAT, SAT Subject Test, AP and PSAT


## 2013-14 PSAT, SAT \& AP: Minority Test Takers

## OVERVIEW: Percent of Test-Takers Self-Reported as Minority Students



## 2013-14 SAT: Average Scores



## 2013-14 AP: Qualifying Scores

AP: Number of Examinations and Number of Examinations with Grades of 3, 4 or 5


Even with our open enrollment for AP classes, students are earning more and more qualifying scores on the AP year after year!

## Internal Assessment Data

(V) Work with all disciplines to streamline data collection for common assessments and determine which measures to capture at the district level

## Internal Assessments: Elementary

|  | ELA | FLA | Math | Science |
| :---: | :---: | :---: | :---: | :---: |
| G1 | - Fountas \& Pinnell BAS (F\&P) | - Decoding/comprehension and GB+ at end of year | - Pre-tests, midyears, and finals <br> - End of unit common assessments | - End of unit common assessments (in development to reflect new FOSS curriculum) |
| G2 | - F\&P | - GB+ |  |  |
| G3 | - Scholastic Reading Inventory (SRI), F\&P | - Pretests <br> - Piloting post-tests |  |  |
| G4 | - SRI, F\&P |  |  |  |
| G5 | - SRI, F\&P |  |  |  |

## Internal Assessments: G2 F\&P

- The Fountas \& Pinnell BAS (F\&P) is a comprehensive reading assessment system that links assessment to instruction along the Continuum of Literacy Learning. It is designed to:
- Determine students' independent and instructional reading levels.
- Determine reading placement levels and group students for reading instruction.
- Select texts that will be productive for students' instruction.
- Assess the outcomes of teaching.
- Identify students who need intervention.
- Document student progress across a school year and across grade levels.
- It is administered 2-4 times a year as needed to drive classroom instruction.
- This particular cohort of second graders (41 students) consists of one self contained classroom and 1 co-taught classroom. There are 7 IEP students, 5 of whom are in the co-taught.
- It is important to note that all students demonstrated growth but may not have changed categories.
- 23 out of 41 students (or $56 \%$ ) at the end of second grade were reading at levels one full grade above 2nd grade reading level benchmark.


## Internal Assessments: G2 F\&P

The following chart shows the progression of F\&P results for a current grade 2 cohort at one of our elementary schools.


## Internal Assessments: Middle School

|  | ELA | History/ <br> Geography | Math | Science |
| :---: | :---: | :---: | :---: | :---: |
| G6 | - SRI, F\&P <br> - Piloting Academic Merit | - Piloting DocumentBased Questions (DBQ) | - End of unit common assessments <br> - Piloting a measure which is a performance -based task | - Pre-test and post-test in Earth, Physical and Life sciences <br> - Piloting Claims, Evidence, Reasoning tasks |
| G7 |  |  |  |  |
| G8 |  |  |  |  |

## Internal Assessments: G6 SRI (ELA)

- Scholastic Reading Inventory (SRI) is an objective assessment of a student's reading comprehension level. Skills assessed in the SRI include:
- Identifying details in a passage
- Identifying cause/effect relationships
- Sequence of events
- Inferences: Drawing Conclusions and Making Generalizations
- Making Comparisons-compare/contrast
- What is the purpose of our Fall Scholastic Reading Inventory (SRI) testing?
- Establish lexile level and independent reading level ("just right" reading books)
- Determine placement in reading intervention programs
- Understand strengths/weaknesses of our students in reading
- What is the purpose of Spring SRI testing?
- Assess reading programs
- Assess student progress
- Determine placement for next grade level or summer school


## Internal Assessments: G6 SRI (ELA)

Performance
Data

317 students tested

| Percentile Rank | Lexile Range | Proficiency Level | September Results | May Results |
| :---: | :---: | :---: | :---: | :---: |
| BELOW GRADE LEVEL |  |  |  |  |
| 1-8\% | BELOW 500L | AT RISK | 1\% (4) | 0\% (1) |
| 9-21\% | 500L-650L | BASIC 1 | 5\% (17) | 2\% (5) |
| 22-38\% | 650L-800L | BASIC 2 | 9\% (27) | 3\% (11) |
| ON GRADE LEVEL |  |  |  |  |
| 39-49\% | 800L-875L | LOW PROFICIENT | 8\% (25) | 4\% (14) |
| 50-61\% | 875L-950L | PROFICIENT | 14\% (43) | 10\% (31) |
| 62-77\% | 950L-1050L | HIGH PROFICIENT | 18\% (57) | 22\% (70) |
| ABOVE LEVEL |  |  |  |  |
| AT 78\% \& ABOVE | ABOVE 1050L | ADVANCED | 45\% (144) | 58\% (185) |

The \% of students below grade level decreased by 10\%, from 15\% in September to only 5\% in May.

The \% of students in low proficiency decreased by $8 \%$, from 22\% in September to 14\% in May.

The \% of students in
high proficient and
advanced increased by $13 \%$, from $45 \%$ in September to 58\% in May.

## Internal Assessments: G6 SRI (ELA)

- How do we use our September SRI assessment results?
- Identified students in need of reading assistance and shared testing data with content area teachers and special educators (if on IEPs)
- Identified students with low lexile levels - who do not receive Special Education services - to work with our Reading Specialist to improve reading skills and academic success
- Our Reading Specialist worked with 28 students this year
- ALL 28 students improved; although at different rates
- Higher need students were scheduled for daily support
- Students with moderate needs were scheduled for every other day reading support
- Content area teachers used lexile levels too
- Worked with students in their Independent Reading programs
- Selected grouping for Lit circles
- Modified lessons, assignments and assessment to meet diverse student needs
- Scaffolded learning to promote student growth


## Internal Assessments: G8 Math

Performance-
based math task

Family Reunion Picture

## Assessment Task

Frances went to her family reunion. They took a picture of the family.


Frances drew a graph of the family members comparing their ages to their heights.

## Internal Assessments: G8 Math

## Growth Parameters

Grade 8 Math

| DDM PreTest Score | DDM Post-Test Score Difference Range for Moderate Growth |
| :---: | :---: |
| 0 | +2-3 points |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 (Meets) | +1-2 points |
| 9 |  |
| 10 |  |
| 11 |  |
| 12 |  |
| 13 | +1 or same number of points |
| 14 |  |
| 15 | -1 or same number of points |
| 16 | -1 |

NOTE: Any student score difference lower than the range is Low Growth and higher than the range is High Growth

## Internal Assessments: G8 Math

The following results are based on a sample set of 81 students with complete pre- and post-test scores on the performance assessment.



| Level | \# of students | $\begin{array}{\|c} \text { Pre-test } \\ \% \end{array}$ |  | \# of students | Posttest \% |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Below Standard (<8 pts) | 52 | 64\% | Below Standard (<8 pts) | 25 | 31\% |
| Meets Standard (8+ pts) | 29 | 36\% | Meets Standard (8+ pts) | 56 | 69\% |

## Internal Assessments: G8 Math

## DDM Pre-Assessment Analysis Grade 8

Approximate percent of students who "met the standard" overall ~ 33\%

- For Family Reunion based on a sample of students
- Students who "met the standard" ~ $55 \%$ of above level and $13 \%$ of on level
- Above level average ~ 3.7
- Many students could match all family members by correctly interpreting the scatter plot
- Most students struggled to account for the age changes
- On level average $\sim 2.7$
- Almost all students could match some family members by interpreting the scatter plot
- Many students could use algebraic reasoning to find solutions
- Many students struggled to write a simple expression
- For Consumer Sense Task based on a sample of students
- Students who "met the standard" ~ $42 \%$ of above level and $3 \%$ of on level
- Above level average ~ 4.0
- Most students could calculate the costs when number of minutes were given
- Some students could write correct equations
- Many students struggled to figure out when the two plans would cost the same
- On level average ~2.1
- Some students could calculate costs when number of minutes were given
- Students struggled to write equations and make comparisons


## Internal Assessments: High School

|  | Humanities | Math | Science |
| :---: | :---: | :---: | :---: |
| G9 | - Pre-test and post test (essay writing prompt) <br> - Common midyear and final <br> - Piloting AcademicMerit | - Common unit assessments in Courses 1 and 2 <br> - Collaborative Critical Thinking tasks <br> - Common midyear and final | - Common unit assessments in Biology, Chemistry and Physics <br> - Common midyear and final |
| G10 |  |  |  |
| G11 |  |  |  |
| G12 |  |  |  |

## Internal Assessments: Math Course 2, CP

- Milton High School students are expected to be at least proficient in all seven $21^{\text {st }}$ Century Learning Expectations by the time they graduate. These expectations have been reviewed and approved by NEASC. Each expectation is measured using a school-wide rubric.
- Learning Expectation \#1: Effectively apply critical thinking skills to solve problems.
- The Mathematics Department implemented Collaborative Critical Thinking tasks this year in order to promote and measure the critical thinking skills of students.
- Each teacher implemented at least one task per term in Course 1, Course 2, and Course 3. For each task, students were given 20 minutes to begin the problem in small groups so that they could collaboratively discuss strategies. Students were then asked to complete the task individually. Students were graded on the tasks using the school-wide rubric.
- Each task is aligned to a different content standard. Therefore scores are not intended to be compared to each other. Instead, the goal is for students to score at least proficient on each task.
- 128 students in Course 2CP completed a Collaborative Critical Thinking Task each term this year


## Internal Assessments: Math Course 2CP

Learning Expectation \#1: Effectively apply critical thinking skills to solve problems.

| Criteria | Advanced | Proficient | Developing | Deficient | Score |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Identification | - Student demonstrates a deep understanding of the concepts and facts specific to the given problem. | - Student demonstrates a clear understanding of the concepts and facts specific to the given problem, with few errors. | - Student demonstrates a fair understanding of the concepts and facts specific to the given problem with several errors. | - Student demonstrates a minimal understanding of the concepts and facts specific to the given problem. |  |
| Strategy | - Student demonstrates the ability to develop multiple effective strategies to solve the given problem. | - Student demonstrates the ability to develop an effective strategy to solve the given problem. | - Student demonstrates the ability to develop a strategy to solve the given problem with some misconceptions or errors. | - Student attempts to develop a strategy to solve the given problem with major misconceptions and errors. |  |
| Implementation | - Student's implementation of his/her strategy contains no errors in the final product. | - Student's implementation of his/her strategy contains minor errors in the final product. | - Student's implementation of his/her strategy contains misconceptions and errors in the final product. | - Student's implementation of his/her strategy contains major misconceptions and errors in the final product. |  |
| Evaluation | - Student consistently analyzes his/herwork in detail to determine whether the solution is accurate and effective to the given problem. | - Student often analyzes his/her work in detail to determine whether the solution is accurate and effective to the given problem. | - Student sometimes analyzes his/her work in detail to determine whether the solution is accurate and effective to the given problem. | - Student rarely analyzes his/her work in detail to determine whether the solution is accurate and effective to the given problem. |  |
|  |  |  |  | Total Score: |  |
|  |  |  |  | Final Grade: |  |

## Internal Assessments: Math Course 2CP

## Scoring Key

- 16 - Advanced
- 12 - Proficient
- 8 - Developing
- 4 - Deficient


## Averages for Course 2CP

-Term 1 (Quadratic Functions) - 11.0

- Term 2 (Analysis of Functions) - 10.6
-Term 3 (Probability) - 11.4
- Term 4 (Circles) - 11.5


Although average scores are not comparable from term to term due to the difference in content, we still see the percentage of students achieving proficiency in applying critical thinking skills increasing with each successive task.

## District Next Steps

- Continue to develop and maintain the district data dashboards
- Clean up data in the current systems and revisit data procedures to ensure accurate data collection in our systems
- Continue to refine and build out all the systems around internal assessments for SY 2015-16
- Work with curriculum coordinators and school leaders to support data analysis practices
- Support the transition to new systems

