# Massachusetts Comprehensive Assessment System 

## Results of Spring 2010

ELA (Gr.3-8 \& 10) Mathematics (Gr.3-8 \& 10), Science (Gr. 5, 8, and high school)

## Background

- This report presents the results of the MCAS tests administered in 2010 in English Language Arts (ELA) grades 3-8 and 10; Mathematics grades 3-8 and 10; and Science and Technology/Engineering (STE) grades 5, 8, and high school.


## English Language Arts

## Changes from 2009:

- Both passing and proficiency rates are up substantially in grade 3. Eighty-two percent $(82 \%)$ of $3^{\text {rd }}$ graders passed the ELA test, up 5 points compared to last year; and $37 \%$ scored at the proficient level of higher, up 6 points compared to SY2008-09.
- Students in grades 4 and 10 also demonstrated gains in their passing rates; and $5^{\text {th }}$ and $7^{\text {th }}$ graders saw notable gains in their proficiency rates ( 3 and 4 points respectively). For the first time, a majority of $7^{\text {th }}$ graders (52\%) reached proficiency.
- Areas of concern include a 4-point drop in the passing rate for grade 5, down to 79\%; and grades 6 and 8 which saw a one point drop each to $79 \%$ and $85 \%$ passing, respectively.
- The percentage of students who scored at the proficient level or above increased or remained constant across all grades except grades 8 and 10 . Despite the $92 \%$ passing rate for $10^{\text {th }}$ graders, there was a 4-point drop in their proficiency rate ( $60 \%$ ).
- Black and Hispanic students saw gains in proficiency rates in grades 3,5,6, and 7. Black students also demonstrated a 1 -point increase in the $8^{\text {th }}$ grade proficiency rate. The $3^{\text {rd }}$ grade gains are especially notable, with and 8-point increase for Black students ( $33 \%$ proficient or above), and a 7-point increase for Hispanic students ( $32 \%$ proficient or above).
- ELL students demonstrated gains in proficiency rates across all grades. ELLs saw a double-digit gain in the $3^{\text {rd }}$ grade proficiency rate, from $22 \%$ to $33 \%$. Similarly, ELLs in $8^{\text {th }}$ grade saw a 10 -point gain in the proficiency rate, from $25 \%$ to $35 \%$. In grade 10 , where the district as a whole saw a 4-point decline, ELL students experienced a 5-point increase in their proficiency rate.
- The percentage of students with disabilities scoring at the proficient level or above increased in grades 3,6 , and 7 . However, the proficiency rates for this group of students remain below $20 \%$ across all grades.


## Comparisons with State:

- The improvement in passing rates exceeded or equaled state gains in four of the seven grades tested (grades 3, 4, 7, and 10).
- Changes in the proficiency rates in three of the seven grades tested also exceeded or equaled state gains. (grades $3,4,5$, and 7 ).


## Mathematics

## Changes from 2009:

- The percentage of students passing Math in 2010 increased in almost all grades. The only exception was grade 10 , where the rate remained constant at $86 \%$. Third and $8^{\text {th }}$ graders saw an 8-point gain.
- The rise in proficiency rates is also substantial across all elementary and middle grades. Third and $7^{\text {th }}$ grade proficiency rates increased by double digits. However, the $10^{\text {th }}$ grade proficiency rate dropped 2 points to $60 \%$.
- Black students saw gains in proficiency rates in grades 3, 5, 6, 7, and 8. Hispanic students saw gains across all grades, except grade 10. In grade 3, the proficiency rate for Hispanic students went up 12 percentage points, to $39 \%$. Black students saw 9 -point gains in grades 3,7 , and 8 .
- ELL students saw gains in their proficiency rates across all grades except grade 10. Most notable were the $3^{\text {rd }}$ grade gain of 15 points, and the $7^{\text {th }}$ grade gain of 10 points.
- Students with disabilities also saw increases in their proficiency rates in grades 3, 5, 6, 7, and 8 . The $3^{\text {rd }}$ grade gain was 7 points, with $20 \%$ of SPED students scoring at the proficient level or above. They experienced a 1-point drop in $4^{\text {th }}$ grade and a 3-point drop in $10^{\text {th }}$ grade.


## Comparisons with State:

- The one-year gains in passing rates in all of the seven grades tested exceeded or equaled state gains by three to five percentage points.
- Changes in proficiency rates for all but grade 10 also exceeded state gains by one to six percentage points .


## Long Term Trends in Racial Achievement Gap;

- In $10^{\text {th }}$ grade ELA, the gap in passing rates between Black and Hispanic students compared to White students has narrowed very significantly: from 35 points in 1998 to 5 points in 2010 , with $90 \%$ or more students in every racial group passing the MCAS.
- The racial gap in proficiency rates is also smaller in $10^{\text {th }}$ grade both compared to last year and compared to 1998. However at 25 percentage points, this gap remains large.
- In $10^{\text {th }}$ grade Math, the gap in passing rates between Black and Hispanic students and their White peers has narrowed significantly since 1998, from 39 points to 9 points.
- As in ELA, the proficiency gap has also decreased in some grades: the gap between Black and Hispanic students and their White peers decreased in grades 6,8 , and 10 . In $7^{\text {th }}$ grade however, White students saw a 17 point gain in proficiency rate, which was not matched by the 9 and 8 -point gains made by Black and Hispanic students respectively, thus increasing the gaps.


## High School - Competency Determination

- To date, $66 \%$ of the class of 2012 (grade10 students in 2010) has already met or partially met the state graduation requirements by passing ELA, Mathematics, and Science. This represents an 8-point gain compared to the class of $2010(57 \%)$ and a 1-point gain compared to the class of 2011 ( $65 \%$ ).
- Forty-four ( $44 \%$ ) of students in the class of 2012 have fully met the new CD standard by performing at the Proficient level or higher in both ELA and Math and by performing at the Needs Improvement level or higher in Science. This is the same percentage as the class of 2011 , but higher than the $39 \%$ for the class of 2010.
- Results of the high school Science \& Technology/Engineering tests show that a majority of students in the class of 2012 (73\%) have already met their new STE competency determination requirement.


# MCAS English Language Arts Results Percent Difference in Passing, Proficient or Higher 2009-2010 

English Language Arts \% Passing (Needs Improvement or higher)

|  | BPS <br> Percentage point <br> Difference |  |  |  | State <br> Percentage point <br> Difference |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 0 - 2 0 0 9}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 0 - \mathbf { 2 0 0 9 }}$ |  |
| Grade 3 | $77 \%$ | $82 \%$ | 5 | $90 \%$ | $93 \%$ | 3 |  |
| Grade 4 | $74 \%$ | $75 \%$ | 1 | $89 \%$ | $89 \%$ | 0 |  |
| Grade 5 | $83 \%$ | $79 \%$ | -4 | $92 \%$ | $91 \%$ | -1 |  |
| Grade 6 | $80 \%$ | $79 \%$ | -1 | $90 \%$ | $90 \%$ | 0 |  |
| Grade 7 | $84 \%$ | $84 \%$ | 0 | $93 \%$ | $93 \%$ | 0 |  |
| Grade 8 | $86 \%$ | $85 \%$ | -1 | $93 \%$ | $94 \%$ | 1 |  |
| Grade 10 | $91 \%$ | $92 \%$ | 1 |  | $96 \%$ | $96 \%$ |  |

Exceed or equal State gains

English Language Arts \% Proficient \& Advanced / Above Proficient

|  | BPS <br> Percentage point <br> Difference |  |  |  | State <br> Percentage point <br> Difference |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 0 - 2 0 0 9}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 0 - \mathbf { 2 0 0 9 }}$ |  |
| Grade 3 | $31 \%$ | $37 \%$ | 6 | $57 \%$ | $63 \%$ | 6 |  |
| Grade 4 | $30 \%$ | $30 \%$ | 0 | $54 \%$ | $54 \%$ | 0 |  |
| Grade 5 | $38 \%$ | $41 \%$ | 3 | $63 \%$ | $63 \%$ | 0 |  |
| Grade 6 | $43 \%$ | $44 \%$ | 1 | $66 \%$ | $69 \%$ | 3 |  |
| Grade 7 | $48 \%$ | $52 \%$ | 4 | $70 \%$ | $72 \%$ | 2 |  |
| Grade 8 | $59 \%$ | $58 \%$ | -1 | $78 \%$ | $78 \%$ | 0 |  |
| Grade 10 | $64 \%$ | $60 \%$ | -4 | $79 \%$ | $78 \%$ | -1 |  |
|  |  |  |  |  |  |  |  |

Exceed or equal State gains

## English Language Arts \% Proficient \& Advanced/Above Proficient by Racial/Ethnic Group

Percentage point
Difference

| Grade 3 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AA/Black | 27\% | 24\% | 25\% | 33\% | 8 |
| Asian | 46\% | 50\% | 45\% | 46\% | 1 |
| Latino/Hispanic | 26\% | 23\% | 25\% | 32\% | 7 |
| White | 54\% | 48\% | 55\% | 64\% | 9 |
| Grade 4 |  |  |  |  |  |
| AA/Black | 26\% | 19\% | 25\% | 23\% | -2 |
| Asian | 52\% | 44\% | 51\% | 47\% | -4 |
| Latino/Hispanic | 23\% | 20\% | 26\% | 24\% | -2 |
| White | 56\% | 46\% | 49\% | 54\% | 5 |
| Grade 5 |  |  |  |  |  |
| AA/Black | 32\% | 31\% | 32\% | 34\% | 2 |
| Asian | 60\% | 59\% | 60\% | 64\% | 4 |
| Latino/Hispanic | 35\% | 30\% | 31\% | 36\% | 5 |
| White | 61\% | 61\% | 59\% | 59\% | 0 |
| Grade 6 |  |  |  |  |  |
| AA/Black | 30\% | 37\% | 37\% | 38\% | 1 |
| Asian | 63\% | 71\% | 66\% | 66\% | 0 |
| Latino/Hispanic | 35\% | 38\% | 36\% | 40\% | 4 |
| White | 62\% | 60\% | 65\% | 62\% | -3 |
| Grade 7 |  |  |  |  |  |
| AA/Black | 41\% | 39\% | 40\% | 42\% | 2 |
| Asian | 69\% | 70\% | 75\% | 73\% | -2 |
| Latino/Hispanic | 41\% | 40\% | 39\% | 45\% | 6 |
| White | 72\% | 75\% | 68\% | 76\% | 8 |
| Grade 8 |  |  |  |  |  |
| AA/Black | 48\% | 49\% | 51\% | 52\% | 1 |
| Asian | 74\% | 76\% | 80\% | 81\% | 1 |
| Latino/Hispanic | 48\% | 51\% | 55\% | 52\% | -3 |
| White | 80\% | 79\% | 82\% | 75\% | -7 |
| Grade 10 |  |  |  |  |  |
| AA/Black | 40\% | 48\% | 56\% | 53\% | -3 |
| Asian | 76\% | 80\% | 81\% | 80\% | -1 |
| Latino/Hispanic | 43\% | 50\% | 59\% | 54\% | -5 |
| White | 74\% | 79\% | 85\% | 78\% | -7 |

English Language Arts \% Proficient \& Advanced/Above Proficient by other AYP Subgroups

|  |  | Percentage point <br> Difference |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 2007 | 2008 | 2009 | 2010 | $2010-2009$ |


| Grade 3 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Students w/ Disab | 12\% | 10\% | 10\% | 14\% | 4 |
| LEP/FLEP | 26\% | 21\% | 22\% | 33\% | 11 |
| Low Income | 27\% | 25\% | 26\% | 32\% | 6 |
| Grade 4 |  |  |  |  |  |
| Students w/ Disab | 7\% | 6\% | 7\% | 6\% | -1 |
| LEP/FLEP | 28\% | 18\% | 25\% | 27\% | 2 |
| Low Income | 26\% | 21\% | 25\% | 25\% | 0 |
| Grade 5 |  |  |  |  |  |
| Students w/ Disab | 11\% | 8\% | 11\% | 11\% | 0 |
| LEP/FLEP | 37\% | 29\% | 29\% | 34\% | 5 |
| Low Income | 36\% | 32\% | 33\% | 36\% | 3 |
| Grade 6 |  |  |  |  |  |
| Students w/ Disab | 9\% | 12\% | 12\% | 14\% | 2 |
| LEP/FLEP | 24\% | 30\% | 34\% | 37\% | 3 |
| Low Income | 35\% | 39\% | 38\% | 40\% | 2 |
| Grade 7 |  |  |  |  |  |
| Students w/ Disab | 10\% | 9\% | 11\% | 14\% | 3 |
| LEP/FLEP | 26\% | 16\% | 30\% | 38\% | 8 |
| Low Income | 43\% | 42\% | 41\% | 45\% | 4 |
| Grade 8 |  |  |  |  |  |
| Students w/ Disab | 18\% | 17\% | 21\% | 18\% | -3 |
| LEP/FLEP | 18\% | 20\% | 25\% | 35\% | 10 |
| Low Income | 50\% | 51\% | 55\% | 53\% | -2 |
| Grade 10 |  |  |  |  |  |
| Students w/ Disab | 12\% | 19\% | 23\% | 18\% | -5 |
| LEP/FLEP | 23\% | 27\% | 23\% | 28\% | 5 |
| Low Income | 45\% | 54\% | 59\% | 54\% | -5 |

## MCAS Mathematics Results Gains in Percent Passing, Proficient or Higher 2009-2010

## Mathematics \% Passing (Needs Improvement or higher)

|  | BPS |  |  | State |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | 2010 | rcentage po Difference 2010-2009 | 2009 | 2010 | Percentage point Difference 2010-2009 |
| Grade 3 | 68\% | 76\% | 8 | 85\% | 89\% | 4 |
| Grade 4 | 75\% | 78\% | 3 | 89\% | 89\% | 0 |
| Grade 5 | 67\% | 72\% |  | 83\% | 83\% | 0 |
| Grade 6 | 64\% | 67\% |  | 84\% | 84\% | 0 |
| Grade 7 | 60\% | 65\% |  | 79\% | 80\% | 1 |
| Grade 8 | 56\% | 64\% |  | 76\% | 79\% | 3 |
| Grade 10 | 86\% | 86\% | 0 | 93\% | 92\% | -1 |

Exceed or equal State gains

Mathematics \% Proficient \& Advanced / Above Proficient

|  | BPS |  |  | State |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | 2010 | rcentage poi Difference 2010-2009 | 2009 | 2010 | Percentage point Difference 2010-2009 |
| Grade 3 | 33\% | 43\% | 10 | 60\% | 65\% | 5 |
| Grade 4 | 27\% | 28\% | 1 | 48\% | 48\% | 0 |
| Grade 5 | 33\% | 39\% | 6 | 54\% | 55\% | 1 |
| Grade 6 | 33\% | 38\% |  | 57\% | 59\% | 2 |
| Grade 7 | 28\% | 38\% | 10 | 49\% | 53\% | 4 |
| Grade 8 | 28\% | 34\% |  | 48\% | 51\% | 3 |
| Grade 10 | 62\% | 60\% | -2 | 75\% | 75\% | 0 |

[^0]
## Mathematics \% Proficient \& Advanced/Above Proficient by Racial/Ethnic Group

## Percentage point Difference <br> 2010-2009

| Grade 3 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AA/Black | 31\% | 29\% | 23\% | 32\% | 9 |
| Asian | 64\% | 69\% | 61\% | 73\% | 12 |
| Latino/Hispanic | 28\% | 29\% | 27\% | 39\% | 12 |
| White | 55\% | 55\% | 55\% | 70\% | 15 |
| Grade 4 |  |  |  |  |  |
| AA/Black | 18\% | 23\% | 21\% | 20\% | -1 |
| Asian | 64\% | 63\% | 59\% | 56\% | -3 |
| Latino/Hispanic | 21\% | 24\% | 22\% | 25\% | 3 |
| White | 52\% | 48\% | 46\% | 46\% | 0 |
| Grade 5 |  |  |  |  |  |
| AA/Black | 22\% | 23\% | 26\% | 30\% | 4 |
| Asian | 74\% | 72\% | 72\% | 76\% | 4 |
| Latino/Hispanic | 29\% | 25\% | 26\% | 33\% | 7 |
| White | 53\% | 55\% | 50\% | 59\% | 9 |
| Grade 6 |  |  |  |  |  |
| AA/Black | 17\% | 22\% | 21\% | 27\% | 6 |
| Asian | 73\% | 75\% | 74\% | 79\% | 3 |
| Latino/Hispanic | 23\% | 28\% | 27\% | 33\% | 6 |
| White | 51\% | 48\% | 57\% | 55\% | -2 |
| Grade 7 |  |  |  |  |  |
| AA/Black | 16\% | 17\% | 16\% | 25\% | 9 |
| Asian | 63\% | 71\% | 69\% | 77\% | 8 |
| Latino/Hispanic | 19\% | 19\% | 21\% | 29\% | 8 |
| White | 45\% | 57\% | 46\% | 63\% | 17 |
| Grade 8 |  |  |  |  |  |
| AA/Black | 14\% | 22\% | 16\% | 25\% | 9 |
| Asian | 67\% | 74\% | 72\% | 78\% | 6 |
| Latino/Hispanic | 20\% | 26\% | 19\% | 26\% | 7 |
| White | 52\% | 57\% | 52\% | 54\% | 2 |
| Grade 10 |  |  |  |  |  |
| AA/Black | 45\% | 46\% | 51\% | 51\% | 0 |
| Asian | 89\% | 92\% | 92\% | 89\% | -3 |
| Latino/Hispanic | 48\% | 54\% | 56\% | 54\% | -2 |
| White | 74\% | 80\% | 82\% | 77\% | -5 |

## Mathematics \% Proficient \& Advanced/Above Proficient by other AYP Subgroups

|  |  | Percentage point <br> Difference |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 2007 | 2008 | 2009 | 2010 | $2010-2009$ |


| Grade 3 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Students w/ Disab | 16\% | 19\% | 13\% | 20\% | 7 |
| LEP/FLEP | 35\% | 33\% | 29\% | 44\% | 15 |
| Low Income | 33\% | 32\% | 27\% | 38\% | 11 |
| Grade 4 |  |  |  |  |  |
| Students w/ Disab | 10\% | 11\% | 9\% | 8\% | -1 |
| LEP/FLEP | 29\% | 28\% | 26\% | 30\% | 4 |
| Low Income | 23\% | 26\% | 23\% | 24\% | 1 |
| Grade 5 |  |  |  |  |  |
| Students w/ Disab | 10\% | 10\% | 9\% | 12\% | 3 |
| LEP/FLEP | 37\% | 30\% | 30\% | 36\% | 6 |
| Low Income | 29\% | 30\% | 29\% | 34\% | 5 |
| Grade 6 |  |  |  |  |  |
| Students w/ Disab | 5\% | 8\% | 8\% | 12\% | 4 |
| LEP/FLEP | 21\% | 25\% | 31\% | 33\% | 2 |
| Low Income | 25\% | 29\% | 29\% | 34\% | 5 |
| Grade 7 |  |  |  |  |  |
| Students w/ Disab | 4\% | 4\% | 5\% | 9\% | 4 |
| LEP/FLEP | 16\% | 13\% | 21\% | 31\% | 10 |
| Low Income | 20\% | 22\% | 22\% | 31\% | 9 |
| Grade 8 |  |  |  |  |  |
| Students w/ Disab | 4\% | 6\% | 5\% | 6\% | 1 |
| LEP/FLEP | 12\% | 15\% | 16\% | 22\% | 6 |
| Low Income | 23\% | 28\% | 22\% | 29\% | 7 |
| Grade 10 |  |  |  |  |  |
| Students w/ Disab | 16\% | 19\% | 25\% | 22\% | -3 |
| LEP/FLEP | 39\% | 47\% | 49\% | 43\% | -6 |
| Low Income | 52\% | 57\% | 58\% | 56\% | -2 |

MCAS Grade 10 ELA Results -

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | I |  |  |  |  |  |  |  |  |
| 言 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{ll} \stackrel{L}{E} \\ \stackrel{\omega}{\omega} & 70 \\ \stackrel{0}{0} \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{ll} \text { od } \\ \text { 亳 } & 60 \\ \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { b } \\ & \text { oㅡㅜㅇ } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{\text { ¢ }}{\stackrel{0}{0}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004* | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
| -Black | 35 | 36 | 34 | 62 | 61 | 66 | 72 | 69 | 82 | 84 | 88 | 88 | 90 |
| $\rightarrow$ White | 67 | 69 | 69 | 85 | 87 | 88 | 89 | 90 | 92 | 93 | 94 | 96 | 95 |
| $\triangle$ - Asian | 61 | 66 | 64 | 78 | 86 | 89 | 90 | 91 | 97 | 96 | 98 | 95 | 95 |
| $\rightarrow$ - Hispanic | 32 | 36 | 33 | 55 | 60 | 63 | 72 | 64 | 82 | 84 | 89 | 89 | 91 |
| * Beginn | g with 2 | the rac | hnicity | are bas | on SIMS |  |  |  |  |  |  |  |  |

MCAS Grade 10 ELA Results -
Percent Proficient and Advanced by Race/




# MCAS Science Results Gains in Percent Passing, Proficient or Higher 2009-2010 

|  | BPS |  |  | State |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | 2010 | ercentage point Difference 2010-2009 | 2009 | 2010 | ercentage point Difference 2010-2009 |
| Grade 5 | 65\% | 68\% |  | 88\% | 89\% | 1 |
| Grade 8 | 49\% | 53\% | 4 | 79\% | 81\% | 2 |
| Grade 10* | 79\% | 80\% | 1 | 90\% | 93\% | 3 |

Exceed or equal State gains

* Grade 10 STE results are reported based on students' best performance on any STE test taken in grade 9 or grade 10; only students continuously enrolled in the same district from fall of grade 9 through spring of grade 10 are included.

|  | BPS |  |  | State |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | 2010 | Percentage point Difference 2010-2009 | 2009 | 2010 | Percentage point Difference 2010-2009 |
| Grade 5 | 18\% | 21\% | 3 | 49\% | 53\% | 4 |
| Grade 8 | 10\% | 10\% | 0 | 39\% | 40\% | 1 |
| Grade 10* | 34\% | 37\% | 3 | 61\% | 65\% | 4 |

Exceed or equal State gains

* Grade 10 STE results are reported based on students' best performance on any STE test taken in grade 9 or grade 10; only students continuously enrolled in the same district from fall of grade 9 through spring of grade 10 are included.


## Science \& Tech/Eng \% Proficient \& Advanced by Racial/Ethnic Group

|  |  |  | Percentage point |
| :---: | :---: | :---: | :---: | :---: |
| Difference |  |  |  |

Grade 5

| AA/Black | $13 \%$ | $10 \%$ | $10 \%$ | $13 \%$ | 3 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Asian | $46 \%$ | $42 \%$ | $44 \%$ | $50 \%$ | 6 |
| Latino/Hispanic | $16 \%$ | $11 \%$ | $13 \%$ | $17 \%$ | 4 |
| White | $45 \%$ | $39 \%$ | $38 \%$ | $41 \%$ | 3 |
|  |  |  |  |  |  |
| Grade 8 | $4 \%$ | $5 \%$ | $6 \%$ | $5 \%$ |  |
| AA/Black | $22 \%$ | $28 \%$ | $24 \%$ | $30 \%$ | -1 |
| Asian | $4 \%$ | $5 \%$ | $6 \%$ | $6 \%$ | 0 |
| Latino/Hispanic | $19 \%$ | $24 \%$ | $22 \%$ | $22 \%$ | 0 |
| White |  |  |  |  | 0 |
| Grade 10* | N/A | $17 \%$ | $22 \%$ | $26 \%$ |  |
| AA/Black | N/A | $66 \%$ | $67 \%$ | $65 \%$ | 4 |
| Asian | N/A | $17 \%$ | $25 \%$ | $28 \%$ | -2 |
| Latino/Hispanic | N/A | $55 \%$ | $63 \%$ | $60 \%$ | 3 |
| White |  |  |  | -3 |  |

* Grade 10 STE results are reported based on students' best performance on any STE test taken in grade 9 or grade 10 only students continuously enrolled in the same district from fall of grade 9 through spring of grade 10 are included


## Science \& Tech/Eng \% Proficient \& Advanced/Above Proficient by other AYP Subgroups

|  |  |  | Percentage point |
| :---: | :---: | :---: | :---: | :---: |
| Difference |  |  |  |

Grade 5

| Students w/ Disab | $6 \%$ | $4 \%$ | $6 \%$ | $7 \%$ | 1 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| LEP/FLEP | $21 \%$ | $14 \%$ | $14 \%$ | $16 \%$ | 2 |
| Low Income | $17 \%$ | $13 \%$ | $14 \%$ | $17 \%$ | 3 |
|  |  |  |  |  |  |
| Grade 8 | $1 \%$ | $1 \%$ | $2 \%$ | $1 \%$ | -1 |
| Students w/ Disab | $1 \%$ | $3 \%$ | $4 \%$ | $5 \%$ | 1 |
| LEP/FLEP | $3 \%$ | $6 \%$ | $7 \%$ | $7 \%$ | 0 |
| Low Income | $5 \%$ |  |  |  |  |
|  |  |  |  |  |  |
| Grade 10* |  |  |  |  |  |
| Students w/ Disab | N/A | $18 \%$ | $12 \%$ | $17 \%$ |  |
| LEP/FLEP | N/A | $18 \%$ | $23 \%$ | 5 |  |
| Low Income | N/A | $23 \%$ | $27 \%$ | $29 \%$ | 2 |

* Grade 10 STE results are reported based on students' best performance on any STE test taken in grade 9 or grade 10 only students continuously enrolled in the same district from fall of grade 9 through spring of grade 10 are included


## Competency Determination Results

Table below displays the cumulative percentages of all students and student subgroups in the class of 2012 who have already met or partially met the state's graduation requirements by performing at the Needs Improvement level or higher in ELA, Mathematics, and Science through the spring 2010 test administration.

Class of 2012: Percentage of Students Scoring Needs Improvement or Higher in ELA, Math, and STE through the Spring 2010 Administration

|  | Class of 2012 |  |  |  |  |  | $\begin{array}{c}\text { Class } \\ \text { of } \\ \text { 2011** }\end{array}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | \(\left.\begin{array}{c}Class <br>

of <br>
2010*\end{array}\right]\)

* Class of 2011 results were through the Spring 2009 administration,

Class of 2010 results were through the Spring 2008 Administration.

The following Table presents the number and cumulative percentage of students in the class of 2012 who have already fully met the CD standard by performing at the Proficient level or higher in both ELA and Mathematics and by performing at the Needs Improvement level or higher in STE through the spring 2010 test administration.

Class of 2012: Number and Percentage of Students Scoring Proficient or Higher in ELA and Mathematics and Needs Improvement or Higher in STE through the Spring 2010 Administration.

|  | Class of 2012 |  | Class of <br> $\mathbf{2 0 1 1}^{*}$ | Class of <br> 2010* |
| :--- | :---: | :---: | :---: | :---: |
| CD Requirement | Number | Percent | Percent | Percent |
| Earned CD | 1,853 | $\mathbf{4 4 \%}$ | $44 \%$ | $39 \%$ |
| ELA and Mathematics Proficient or Higher | 1,898 | $\mathbf{4 5 \%}$ | $46 \%$ | $42 \%$ |
| ELA Proficient or Higher | 2,300 | $\mathbf{5 4 \%}$ | $58 \%$ | $52 \%$ |
| Mathematics Proficient or Higher | 2,341 | $\mathbf{5 5 \%}$ | $56 \%$ | $52 \%$ |
| STE Needs Improvement or Higher | 3,108 | $\mathbf{7 3 \%}$ | $73 \%$ | $61 \%$ |

[^1]
## High School Science by Subject, Graduating Class, and Grade

The following table displays the number and percent of students in the classes of 2011 to 2013 who took and passed a discipline-specific high school Science and Technology/Engineering test in grade 9 or grade 10.

High School Science \& Tech/Eng Tests: \% Passing STE in Grades 9 and 10: Classes of 2011 to 2013

|  | Class of 2011 | Class of 2012 | Class of 2013 |
| :---: | :---: | :---: | :---: |
|  | \% passing STE <br> ( $n=$ total test takers) | \% passing STE <br> ( $\mathrm{n}=$ total test takers) | \% passing STE <br> ( $n=$ total test takers) |
| Passed STE in Grade 9 |  |  |  |
| Biology | 80\% (1017) | 82\% (1004) | 82\% (1098) |
| Chemistry | 14\% (56) | 11\% (19) | 0\% (4) |
| Physics | 58\% (2370) | 58\% (2203) | 63\% (2213) |
| Tech/Eng | 90\% (146) | 90\% (125) | 83\% (147) |
| Passed STE in Grade 10 |  |  |  |
| Biology | 47\% (898) | 42\% (866) | - |
| Chemistry | 23\% (206) | 30\% (166) | - |
| Physics | 82\% (436) | 86\% (447) | - |
| Tech/Eng | 43\% (21) | 43\% (21) | - |

- The percentage of students who took and passed Biology as $9^{\text {th }}$ graders increased for the class of $2012(82 \%)$ compared to the class of $2011(80 \%)$, but remained the same for the class of 2013 ( $82 \%$ ).
- The percentage of students who passed Physics as $9^{\text {th }}$ graders was notably higher for the class of $2013(63 \%)$ compared to the classes of 2011 and 2012.
- Compared to the class of 2011, the percent of the class of 2012 who took and passed Physics as $10^{\text {th }}$ graders increased from $82 \%$ to $86 \%$.
- The percentage of students passing Biology in $10^{\text {th }}$ grade declined for the class of $2012(42 \%)$, compared to the class of $2011(47 \%)$.


[^0]:    Exceed or equal State gains

[^1]:    * Class of 2011 results were through the Spring 2009 administration,

    Class of 2010 results were through the Spring 2008 Administration.

