## HOWARD COUNTY

PUBLIC SCHOOL SYSTEM

## Board of Education of Howard County Meeting Agenda Item

|  | Report on the Results of the 2010 Maryland <br> School Assessment (MSA) | Date: <br> Jose Stevenson, Director of Student Assessment and |
| :--- | :--- | :--- |
| Presenter(s): | Srogram Evaluation |  |

## Overview:

Howard County Public Schools System (HCPSS) students continue to perform well on the Maryland School Assessment according to the latest results released by the Maryland State Department of Education in July. In reading, despite some score fluctuations, elementary and middle school students continue to perform at least at the 90 percent proficient or advanced level. In mathematics, 89 percent of students in Grades 3 to 8 scored proficient or advanced. The improvement in Grades 3 and 5 marks the first time that students in elementary mathematics exceeded 90 percent proficient or advanced. In science, the percent of students scoring at proficient or advanced increased for students in the two tested grades, Grades 5 and 8.

Since the first full administration of the MSA in 2004, HCPSS students have made steady gains in reading and mathematics in every grade and student group, and notably the Hispanic, African American and special services student groups, bringing the schools closer to meeting the No Child Left Behind goal of having all students reach proficiency by 2014.

## Recommendation/Future Direction:

While the performance of HCPSS students on the MSA is a cause for celebration, important to our current and future successes is the system's continuous commitment to ongoing analysis and reflection of curriculum, instruction, and programs for the benefit of all students. Staff in schools and Central Office will continue to apply the Plan, Do, Study, Act (PDSA) process to support improved academic performance for all students.

## Submitted <br> by: <br> Approval/ Concurrence:

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Sydney L. Cousin
Superintendent

> Jose Stevenson, Director
> Student Assessment and
> Program Evaluation

## Background

The annual Maryland School Assessment (MSA) in reading and mathematics provides measures for proficiency in these content areas to comply with student assessment mandates under the No Child Left Behind (NCLB) Act. All students in Grades 3 through 8 participate in MSA testing and all of their scores are reported to the school system and schools as basic, proficient, or advanced. The High School Assessments in English and Algebra provide evidence for proficiency for high school students. Some special education students who meet specific participation criteria based on their Individualized Education Plan (IEP) can take the Alternate MSA (Alt-MSA) or the Modified MSA (Mod-MSA). Students scoring at or above state standards on these tests are deemed proficient. Results from these tests are used in the calculation of whether schools meet the Adequate Yearly Progress targets under NCLB.

The MSA in science provides measures for proficiency to meet the student assessment requirement for science under NCLB. Results from this test, however, are not included in calculations of Adequate Yearly Progress. The science MSA is administered annually in Grades 5 and 8. The 2010 administration marks the third administration of this test.

The results presented in this report include performance on MSA, Alt-MSA and Mod-MSA combined. These results will not match those presented on the www.mdreportcard.org web site of the Maryland State Department of Education. Those results include performance on MSA and Mod-MSA combined only.

## 2010 SYSTEMWIDE MSA READING RESULTS

Systemwide, Howard County Public School System (HCPSS) students in Grades 3 to 8 held MSA reading scores steady for 2010. Despite some minor fluctuations in the percentages of students who scored at proficient or advanced, students across all grades and grade bands continue to perform at least at the 90 percent proficient or advanced level. Overall, of the 22,194 students who participated in testing, 20,389 ( 91.8 percent) scored proficient or advanced in reading.


Elementary Student Groups. The 2010 performance of student groups in Grades 3 to 5 on the reading MSA showed fluctuations in comparison to 2009. Declines in the proficiency rates ranged from less than 1 percentage point for male and Asian students to 7.1 percentage points for special education students. The performance of female and White students remained unchanged. American Indian/Alaskan students, Hispanic students and students receiving Free and Reduced-Price Meals Services (FARMS) improved their proficiency rates. The performance of the American Indian/Alaskan group (a gain of 6.7 percentage points) needs to be interpreted with caution. Their small number (about 30 in 2009 and 2010) has a strong impact on calculations of percentage changes each year. Table 1 presents these data.

Table 1: Number and Percent of Students Achieving Proficiency in Reading MSA Grades 3-5, 2009 and 2010

| Student <br> Group | Number <br> Tested |  | Number <br> Proficient and <br> Advanced |  | Percent <br> Proficient and <br> Advanced |  | Change in <br> Proficiency <br> (Percentage <br> Points) |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 | -0.3 |
| Overall | 10,713 | 10,695 | 9,974 | 9,925 | 93.1 | 92.8 | -0.6 |
| Male | 5,628 | 5,582 | 5,155 | 5,080 | 91.6 | 91.0 | -0.0 |
| Female | 5,085 | 5,113 | 4,815 | 4,842 | 94.7 | 94.7 | 0.0 |
| Asian | 1,737 | 1,833 | 1,659 | 1,745 | 95.5 | 95.2 | -0.3 |
| African American | 2,385 | 2,395 | 2,042 | 2,012 | 85.6 | 84.0 | -1.6 |
| White | 5,661 | 5,403 | 5,463 | 5,219 | 96.5 | 96.6 | 0.1 |
| Hispanic | 560 | 621 | 460 | 530 | 82.1 | 85.3 | 3.2 |
| Am. Ind./Alaskan | 30 | 29 | 28 | 29 | 93.3 | 100.0 | 6.7 |
| Not Reported | 340 | 414 | 317 | 391 | 93.2 | 94.4 | 1.2 |
| ELL | 439 | 446 | 322 | 319 | 73.3 | 71.5 | -1.8 |
| FARMS | 1,569 | 1,870 | 1,236 | 1,494 | 78.8 | 79.9 | 1.1 |
| Special Education | 915 | 858 | 649 | 547 | 70.9 | 63.8 | -7.1 |

Middle Student Groups. Student groups in Grades 6 to 8 showed proficiency rate fluctuations similar to those of the elementary student groups. Proficiency rates declined by 1.5 percentage points or less for male, female, White, Hispanic and English Language Learners. The greatest decline came from the special education students ( 7.5 percentage points). Asian, African American, American Indian/Alaskan, and students receiving free and reduced meals services improved their performance in reading over 2009. Table 2 presents these data.

Table 2: Number and Percent of Students Achieving Proficiency in Reading MSA Grades 6-8, 2009 and 2010

| Student <br> Group | Number <br> Tested |  | Number <br> Proficient |  | Percent <br> Proficient |  | Change in <br> Proficiency <br> (Percentage <br> Points) |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 | -0.5 |
| Overall | 11,732 | 11,499 | 10,735 | 10,464 | 91.5 | 91.0 | -0.6 |
| Male | 6,153 | 5,933 | 5,495 | 5,263 | 89.3 | 88.7 | -0.6 |
| Female | 5,579 | 5,566 | 5,244 | 5,199 | 94.0 | 93.4 | -712 |
| Asian | 1,788 | 1,796 | 1,688 | 1,712 | 94.4 | 95.3 | 0.9 |
| African American | 2,565 | 2,640 | 2,106 | 2,183 | 82.1 | 82.7 | 0.6 |
| White | 6,551 | 6,208 | 6,256 | 5,848 | 95.5 | 94.2 | -1.3 |
| Hispanic | 605 | 629 | 491 | 510 | 81.2 | 81.1 | -0.1 |
| Am. Ind./Alaskan | 38 | 38 | 29 | 31 | 76.3 | 81.6 | 5.3 |
| Not Reported | 185 | 188 | 173 | 174 | 93.5 | 92.6 | -0.9 |
| ELL | 305 | 186 | 177 | 105 | 58.0 | 56.5 | -1.5 |
| FARMS | 1,551 | 1,868 | 1,123 | 1,388 | 72.4 | 74.3 | 1.9 |
| Special Education | 880 | 813 | 561 | 458 | 63.8 | 56.3 | -7.5 |

## 2010 SYSTEMWIDE MSA MATHEMATICS RESULTS

Except for a slight decline in Grades 7 and 8 of about 1 percentage point, mathematics performance was on the rise at every grade level and grade band from the previous year. The improvement in Grades 3 and 5 marks the first time that students in elementary mathematics exceeded 90 percent proficient or advanced.


Grade
Overall, of the 22,300 students in Grades 3 to 8 who participated in testing, 19,929 (89.4 percent) scored proficient or advanced in mathematics, a gain of 1 percentage point over 2009.

Elementary Student Groups. Every student group in Grades 3 to 5 improved performance over 2009. Table 3 presents these data.

- African American and Hispanic students are now performing at least at the 81 percent proficient or advanced level for the first time, while ELL and students receiving FARMS are now performing at least at the 74 percent level.
- American Indian/Alaskan students had the largest gain (19.6 percentage points), reflecting the impact that their small numbers has on percentage changes each year. English Language Learners and students receiving free and reduced-price meals services increased by about 7 percentage points.
- Special education students and African American students gained 4.3 and 2.9 percentage points, respectively.
- Hispanic students also showed marked improvement of 9.2 percentage points.

Table 3: Number and Percent of Students Achieving Proficiency in Mathematics MSA Grades 3-5, 2009 and 2010

| Student <br> Group | Number <br> Tested |  | Number <br> Proficient or <br> Advanced |  | Percent <br> Proficient or <br> Advanced |  | Change in <br> Proficiency <br> (Percentage <br> Points) <br>  2009 2010 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
| Overall | 10,761 | 10,748 | 9,653 | 9,856 | 89.7 | 91.7 | 2.0 |
| Male | 5,656 | 5,614 | 5,023 | 5,109 | 88.8 | 91.0 | 2.2 |
| Female | 5,105 | 5,134 | 4,625 | 4,749 | 90.6 | 92.5 | 1.9 |
| Asian | 1,770 | 1,865 | 1,690 | 1,792 | 95.5 | 96.1 | 0.6 |
| African American | 2,393 | 2,399 | 1,869 | 1,943 | 78.1 | 81.0 | 2.9 |
| White | 5,659 | 5,408 | 5,353 | 5,202 | 94.6 | 96.2 | 1.6 |
| Hispanic | 567 | 629 | 408 | 511 | 72.0 | 81.2 | 9.2 |
| Am. Ind./Alaskan | 31 | 32 | 23 | 30 | 74.2 | 93.8 | 19.6 |
| Not Reported | 341 | 415 | 304 | 384 | 89.1 | 92.5 | 3.4 |
| ELL | 488 | 499 | 331 | 373 | 67.8 | 74.7 | 6.9 |
| FARMS | 1,585 | 1,891 | 1,098 | 1,437 | 69.3 | 76.0 | 6.7 |
| Special Education | 913 | 857 | 541 | 545 | 59.3 | 63.6 | 4.3 |

Middle Student Groups. Student groups in Grades 6 to 8 maintained or improved their high levels of performance in mathematics over 2009, with some exceptions. Table 4 presents these results.

- The ELL and special education student groups decreased their percentage of students at proficient or advanced by 9.6 and 2.7 percentage points, respectively.
- Likewise, the performance of the American Indian/Alaskan student group declined by 10.9 percentage points, reflecting the impact that their small numbers has on percentage changes each year.
- Hispanic students had the greatest gain, 4.1 percentage points.

Table 4: Number and Percent of Students Achieving Proficiency in Mathematics MSA Grades 6-8, 2009 and 2010

| Student <br> Group | Number <br> Tested |  | Number <br> Proficient or <br> Advanced |  | Percent <br> Proficient or <br> Advanced |  | Change in <br> Proficiency <br> (Percentage <br> Points) |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 | 0.3 |
| Overall | 11,781 | 11,552 | 10,238 | 10,073 | 86.9 | 87.2 | 0.7 |
| Male | 6,179 | 5,960 | 5,295 | 5,149 | 85.7 | 86.4 | -0.2 |
| Female | 5,602 | 5,592 | 4,947 | 4,927 | 88.3 | 88.1 | -10.2 |
| Asian | 1,815 | 1,825 | 1,742 | 1,756 | 96.0 | 96.2 | 0.2 |
| African American | 2,573 | 2,652 | 1,804 | 1,872 | 70.1 | 70.6 | 0.5 |
| White | 6,555 | 6,214 | 6,050 | 5,754 | 92.3 | 92.6 | 0.3 |
| Hispanic | 613 | 635 | 460 | 502 | 75.0 | 79.1 | 4.1 |
| Am. Ind./Alaskan | 39 | 38 | 33 | 28 | 84.6 | 73.7 | -10.9 |
| Not Reported | 186 | 188 | 152 | 163 | 81.7 | 86.7 | 5.0 |
| ELL | 345 | 233 | 236 | 137 | 68.4 | 58.8 | -9.6 |
| FARMS | 1,561 | 1,891 | 965 | 1,193 | 61.8 | 63.1 | 1.3 |
| Special Education | 885 | 815 | 481 | 421 | 54.4 | 51.7 | -2.7 |

## 2010 SCHOOL-BY-SCHOOL MSA READING AND MATHEMATICS RESULTS

The 2010 MSA results indicate that HCPSS schools continue to show progress towards the 2014 goal of 100 percent proficiency in reading and mathematics for all of their students.

At the elementary level:

- In reading, every elementary school had 81 percent or more students scoring proficient or advanced. Of the 40 elementary schools, there were 29 ( 73 percent) with more than 90 percent of students scoring proficient or advanced. This number includes Cradlerock Lower School.
- In mathematics, every elementary school had more than 77 percent of students scoring proficient or advanced. There were 25 schools ( 63 percent) with more than 90 percent of students scoring proficient or advanced.

At the middle school level:

- In reading, every middle school had 80 percent or more students scoring proficient or advanced. Of the 19 middle schools, there were 11 ( 58 percent) with at least 90 percent of students scoring proficient or advanced. This number includes Cradlerock Upper School.
- In mathematics, every middle school had more than 73 percent of students scoring proficient or advanced. There were 10 schools (53 percent) with more than 90 percent of students scoring proficient or advanced.

Twenty-four elementary schools and 10 middle schools had 90 percent or more students scoring proficient or advanced in both reading and mathematics.

## 2004-2010 MSA READING AND MATHEMATICS TREND PERFORMANCE

The percentage of students in Grades 3 through 8 scoring proficient or advanced on the MSA has risen steadily since 2004. The greatest gains have occurred to students receiving special services and African American and Hispanic students in both reading and mathematics. Tables 5 and 6 present these trends.

Table 5: Student Proficiency in Reading MSA, Grades 3-8, 2004 and 2010

| Student <br> Group | Number <br> Tested |  | Number <br> Proficient or <br> Advanced |  | Percent <br> Proficient or <br> Advanced |  | Change in <br> Proficiency <br> (Percentage <br> Points) |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | 2004 | 2010 | 2004 | 2010 | 2004 | 2010 | 5.2 |
| Overall | 22,749 | 22,194 | 19,701 | 20,374 | 86.6 | 91.8 | 5.8 |
| Male | 11,821 | 11,515 | 9,977 | 10,340 | 84.4 | 89.8 | 5.4 |
| Female | 10,905 | 10,679 | 9,716 | 10,038 | 89.1 | 94.0 | 4.9 |
| Asian | 2,652 | 3,629 | 2,400 | 3,458 | 90.5 | 95.3 | 4.8 |
| African American | 4,326 | 5,035 | 3,102 | 4,194 | 71.7 | 83.3 | 11.6 |
| White | 14,647 | 11,611 | 13,358 | 11,065 | 91.2 | 95.3 | 4.1 |
| Hispanic | 791 | 1,250 | 578 | 1,040 | 73.1 | 83.2 | 10.1 |
| Am. Ind./Alaskan | 46 | 67 | 39 | 60 | 84.8 | 89.6 | 4.8 |
| Not Reported | 264 | 602 | 216 | 565 | 81.8 | 93.9 | 12.1 |
| ELL | 447 | 632 | 234 | 424 | 52.3 | 67.1 | 14.8 |
| FARMS | 2,434 | 3,738 | 1,434 | 2,882 | 58.9 | 77.1 | 18.2 |
| Special Education | 1,908 | 1,671 | 956 | 1,004 | 50.1 | 60.1 | 10.0 |

Table 6: Student Proficiency in Mathematics MSA, Grades 3-8, 2004 and 2010

| Student <br> Group | Number <br> Tested |  | Number <br> Proficient or <br> Advanced |  | Percent <br> Proficient or <br> Advanced |  | Change in <br> Proficiency <br> (Percentage |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: | :---: |
| Points) |  |  |  |  |  |  |  |

The percentage of students in Grades 3 through 8 scoring at the advanced level has also risen steadily since 2004 on both the reading and the mathematics MSA. Particularly encouraging is the progress that students who receive special services have made in this regard. Tables 7 and 8 present these trends.

Table 7: Percentage of Students Scoring Advanced Proficiency, Reading MSA Grades 3-8, 2004 and 2010

| Student <br> Group | Number <br> Tested |  | Number <br> Advanced <br> Proficiency |  | Percent <br> Advanced <br> Proficiency | Change in <br> Advanced <br> Proficiency <br> (Percentage |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
| Points) |  |  |  |  |  |  |

Table 8: Percentage of Students Scoring Advanced Proficiency, Mathematics MSA Grades 3-8, 2004 and 2010

| Student <br> Group | Number <br> Tested |  | Number <br> Advanced <br> Proficiency |  | Percent <br> Advanced <br> Proficiency | Change in <br> Advanced <br> Proficiency <br> (Percentage <br> Points) |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | 2004 | 2010 | 2004 | 2010 | 2004 | 2010 | 18.5 |
| Overall | 22,754 | 22,300 | 6,417 | 10,414 | 28.2 | 46.7 | 17.5 |
| Male | 11,825 | 11,574 | 3,453 | 5,405 | 29.2 | 46.7 | 19.4 |
| Female | 10,906 | 10,726 | 2,977 | 5,009 | 27.3 | 46.7 | 20.3 |
| Asian | 2,654 | 3,690 | 1,210 | 2,432 | 45.6 | 65.9 | 13.0 |
| African American | 4,326 | 5,051 | 372 | 1,091 | 8.6 | 21.6 | 22.4 |
| White | 14,650 | 11,622 | 4,688 | 6,322 | 32.0 | 54.4 | 10.1 |
| Hispanic | 791 | 1,264 | 93 | 277 | 11.8 | 21.9 | 26.2 |
| Am. Ind./Alaskan | 46 | 70 | 7 | 29 | 15.2 | 41.4 | 26.8 |
| Not Reported | 264 | 603 | 47 | 269 | 17.8 | 44.6 | 2.6 |
| ELL | 447 | 732 | 58 | 132 | 13.0 | 18.0 | 5.0 |
| FARMS | 2,434 | 3,782 | 117 | 613 | 4.8 | 16.2 | 11.4 |
| Special Education | 1,908 | 1,672 | 124 | 221 | 6.5 | 13.2 | 6.7 |

## 2010 MSA SCIENCE RESULTS

System results on the 2010 Science MSA (Table 9) show that the percent of students scoring proficient or advanced increased for Grades 5 and 8 over last year. At Grade 5, the percent of students scoring at proficient or advanced increased 2.2 percentage points, from 76.4 in 2009 to 78.6 in 2010. The percent of Grade 8 students scoring at proficient or advanced increased slightly, from 85.7 in 2009 to 86.4 in 2010.

Table 9: Number and Percent of Students Achieving Proficiency in Science MSA Grades 5 and 8, 2009 and 2010

| Student <br> Group | Number <br> Tested |  | Number <br> Proficient or <br> Advanced |  | Percent <br> Proficient or <br> Advanced |  | Change in <br> Proficiency <br> (Percentage <br> Points) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 | Pon |
| Grade 5 | 3,755 | 3,552 | 2,869 | 2,793 | 76.4 | 78.6 | 2.2 |
| Grade 8 | 4,075 | 3,899 | 3,492 | 3,370 | 85.7 | 86.4 | 0.7 |

Elementary Student Groups. Most student groups in Grade 5 improved their high levels of performance in science over 2009, with some exceptions (see Table 10).

- The ELL and special education student groups decreased their percentage of students at proficient or advanced by 8.5 and 3.3 percentage points, respectively.
- Hispanic students had the greatest gain, 11.2 percentage points.

Table 10: Number and Percent of Students Achieving Proficiency in Science MSA Grade 5, 2009 and 2010

| Student <br> Group | Number <br> Tested |  | Number <br> Proficient or <br> Advanced |  | Percent <br> Proficient or <br> Advanced | Change in <br> Proficiency <br> (Percentage <br> Points) |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 | 2.2 |
| Male | 3,755 | 3,552 | 2,869 | 2,793 | 76.4 | 78.6 | 2.2 |
| Female | 1,926 | 1,883 | 1,473 | 1,482 | 76.5 | 78.7 | 2.3 |
| Asian | 1,829 | 1,669 | 1,396 | 1,311 | 76.3 | 78.6 | 0.4 |
| African American | 583 | 606 | 493 | 515 | 84.6 | 85.0 | 3.3 |
| White | 848 | 828 | 456 | 473 | 53.8 | 57.1 | 2.6 |
| Hispanic | 2,023 | 1,805 | 1,744 | 1,603 | 86.2 | 88.8 | 11.2 |
| Am. Ind./Alaskan* | 206 | 204 | 98 | 120 | 47.6 | 58.8 | 25.0 |
| Not Reported | 8 | 8 | 5 | 7 | 62.5 | 87.5 | -8.7 |
| ELL | 87 | 101 | 73 | 76 | 83.9 | 75.2 | -8.5 |
| FARMS | 129 | 117 | 43 | 29 | 33.3 | 24.8 | 6.6 |
| Special Education | 301 | 284 | 118 | 102 | 39.2 | 35.9 | -3.3 |

*The performance associated with the performance of American Indian/Alaskan students are affected by the small numbers and, therefore, must be interpreted with caution.

Middle Student Groups. Student groups in Grade 8 maintained or improved their high levels of performance in mathematics over 2009, with one exception (see Table 11). The ELL student group decreased their percentage of students at proficient or advanced by 12.6 points.

Table 11: Number and Percent of Students Achieving Proficiency in Science MSA Grade 8, 2009 and 2010

| Student Group | Number Tested |  | Number Proficient or Advanced |  | Percent Proficient or Advanced |  | Change in Proficiency (Percentage Points) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 |  |
| Overall | 4,075 | 3,899 | 3,492 | 3,370 | 85.7 | 86.4 | 0.7 |
| Male | 2,135 | 2,033 | 1,838 | 1,757 | 86.1 | 86.4 | 0.3 |
| Female | 1,940 | 1,866 | 1,657 | 1,612 | 85.4 | 86.4 | 1.0 |
| Asian | 625 | 604 | 570 | 552 | 91.2 | 91.4 | 0.2 |
| African American | 882 | 868 | 588 | 600 | 66.7 | 69.0 | 2.3 |
| White | 2,319 | 2,160 | 2,159 | 2,024 | 93.1 | 93.7 | 0.6 |
| Hispanic | 188 | 215 | 127 | 152 | 67.6 | 70.7 | 3.1 |
| Am. Ind./Alaskan | 13 | 9 | 8 | 6 | 61.5 | 66.7 | 5.2 |
| Not Reported | 48 | 43 | 43 | 35 | 89.6 | 81.4 | -8.2 |
| ELL | 110 | 59 | 53 | 21 | 48.2 | 35.6 | -12.6 |
| FARMS | 523 | 613 | 272 | 349 | 52.0 | 56.9 | 4.8 |
| Special Education | 258 | 240 | 109 | 104 | 42.2 | 43.3 | 1.0 |

## Elementary School Results

The percentage of students scoring at proficient or advanced increased at most elementary schools from last year. Data indicate that:

- Twenty-six of the county's 40 elementary schools showed gains. This includes Deep Run, Stevens Forest, Talbott Springs, and Worthington, which experienced doubledigit gains (14.5, 12.2, 21.5, and 10.4 percentage points, respectively). The total number of schools includes Cradlerock Lower.
- Nineteen elementary schools had at least 83 percent of their students scoring at proficient or advanced, including 11 that had 90 percent or more of their students scoring at this level in 2010.
- Thirty-three elementary schools saw an increase in the percentage of students at the advanced level over 2009. Six of these schools had increases of at least 13 percentage points or more (see Table 12).

Table 12: Grade 5 Students in Selected Schools Achieving Advanced Proficiency Science MSA, 2009 and 2010

| School | Number Tested |  | Number Advanced Proficiency |  | Percent Advanced Proficiency |  | Change in Advanced Proficiency (Percentage Points) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 |  |
| Bushy Park | 164 | 104 | 27 | 31 | 16.5 | 29.8 | 13.3 |
| St. John's Lane | 97 | 97 | 14 | 29 | 14.4 | 29.9 | 15.5 |
| Stevens Forest | 53 | 42 | 0 | 6 | 0.0 | 14.3 | 14.3 |
| Triadelphia Ridge | 87 | 86 | 15 | 31 | 17.2 | 36.0 | 18.8 |
| Waverly | 83 | 93 | 12 | 28 | 14.5 | 30.1 | 15.6 |
| Worthington | 79 | 57 | 11 | 19 | 13.9 | 33.3 | 19.4 |

## Middle School Results

At Grade 8, 11 of the 19 middle schools saw an increase in the percentage of students scoring at proficient or advanced from 2009. The total number of middle schools includes Cradlerock Upper. Additionally,

- Thirteen middle schools had at least 85 percent of their students scoring at proficient or advanced. This includes 9 schools that had more than 90 percent of their students scoring at this level in 2010.
- Twelve schools showed increases in the percentage of students scoring at the advanced level from 2009. Six of these schools had increases of at least 3 percentage points or more. These results are displayed in Table 13.

Table 13: Grade 8 Students in Selected Schools Achieving Advanced Proficiency
Science MSA, 2009 and 2010

| School | Number <br> Tested |  | Number <br> Advanced <br> Proficiency |  | Percent <br> Advanced <br> Proficiency |  | Change in <br> Advanced <br> Proficiency <br> (Percentage <br> Points) |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 | 4.9 |
| Burleigh Manor | 232 | 231 | 65 | 76 | 28.0 | 32.9 | 3.1 |
| Cradlerock Upper | 134 | 145 | 7 | 12 | 5.2 | 8.3 | 8.0 |
| Folly Quarter | 203 | 177 | 41 | 50 | 20.2 | 28.2 | 3.7 |
| Glenwood | 225 | 218 | 34 | 41 | 15.1 | 18.8 | 3.1 |
| Hammond | 215 | 196 | 38 | 41 | 17.7 | 20.9 | 7.1 |
| Patapsco | 231 | 203 | 45 | 54 | 19.5 | 26.6 |  |

## Summary of Results

HCPSS elementary and middle schools continue to improve the performance of students on the MSA. Over 90 percent of students in Grades 3 to 8 scored proficient or advanced on the reading MSA. Almost the same percentage (89 percent) scored proficient or advanced on the mathematics MSA.

In 2010 HCPSS elementary and middle school students continued a trend that started in 2004 towards higher percentages of achieving students. This is especially true of students who receive special services and African American and Hispanic students. Achievement gains of this magnitude reflect the continuous success of school initiatives, student monitoring, parental involvement, professional development, and administrative support.

While this school and student performance is encouraging, the 2010 MSA results also showed that there are opportunities for improvement. Special education students and English Language Learners decreased their percentage of students who were proficient or advanced in reading and mathematics in middle school. On the other hand, students in these two groups saw progress in elementary mathematics.

Staff in schools and Central Office will continue to apply the Plan, Do, Study, Act (PDSA) process to support improved academic performance for all students.

