



**BOARD OF EDUCATION OF HOWARD COUNTY  
MEETING AGENDA ITEM**

**TITLE:** Results of the 2011 Administration of the Stanford Achievement Test Tenth Edition (SAT 10), Grade 2 **DATE:** August 18, 2011

**PRESENTER(S):** Rebecca Amani-Dove, Director of Student Assessment and Program Evaluation

**OVERVIEW:**

The Howard County Public School System (HCPSS) administers a norm-referenced achievement test, the Stanford Achievement Test Version 10 (SAT 10), to students in second grade. This multiple-choice assessment measures subject area content and process skills. Results from the SAT 10 help staff and parents understand how students are progressing in reading and mathematics in comparison to a sample of Grade 2 students nationwide.

In 2011, Grade 2 students continued to achieve at high levels, with 82.9 percent scoring proficient in reading and 82.3 percent scoring proficient in mathematics. These results exceeded the local standard of 70 percent scoring proficient. Since HCPSS first administered this assessment in 2007, the percentage of students achieving proficiency in reading and mathematics has increased for students, overall, and for students receiving special services.

Due to implementation of new federal race codes, 2011 is a new baseline year for data reported for each racial/ethnic group. Students in the Asian, White, and Two or More Races student groups exceeded the local proficiency standard in reading and mathematics.

**RECOMMENDATION/FUTURE DIRECTION:**

The SAT 10 is one of multiple measures used in the classroom to help teachers and administrators understand the academic progress of each individual student. The SAT 10 results will continue to be used in combination with other measures, including local assessments, to inform continuous improvement efforts and ensure the success of every student.

**Submitted by:**

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**Approval/  
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## **Background Information**

HCPSS has administered the SAT 10, a norm-referenced achievement test, to Grade 2 students since 2007. This assessment measures student progress toward rigorous academic standards in reading and mathematics. Results from this assessment provide parents, teachers, and administrators specific information about what students know and are able to do in the areas of Word Study Skills, Reading Vocabulary, Reading Comprehension, Mathematics Problem Solving, Mathematics Procedures, and Language. SAT 10 reports indicate the achievement level of students in each area, and also show how each student has performed in comparison to a representative sample of students across the country. Teachers and administrators use SAT 10 results, along with other objective measures, to inform instructional planning.

HCPSS set a local expectation that 70 percent of students demonstrate proficiency in reading and mathematics on the SAT 10. Proficiency is defined as earning a scaled score within or above the 5<sup>th</sup> stanine. Stanine is a method of scaling test scores on a nine-point standard scale, and the 5<sup>th</sup> stanine is associated with the national average.

In HCPSS, the SAT 10 is the first exposure that students have to a standardized test administered over multiple days with significant instructions and timing limits. This testing experience is valuable as it helps prepare students for the Maryland School Assessment (MSA) in Grade 3.

## **2011 SAT 10 Results**

In 2011, 82.9 percent of assessed students attained proficiency in reading and 82.3 percent attained proficiency in mathematics, exceeding the local standard. The Asian, White, and Two or More Races student groups also exceeded the standard in both reading and mathematics. Table 1, below, provides results for all student groups.

Table 1.  
Percentage of Grade 2 Students Achieving Proficient in Reading and Mathematics by Student Group, 2011 Administration of the SAT 10

Student Group	Number Tested	Reading		Mathematics	
		Number	Percent	Number	Percent
Overall	3,707	3,073	82.9	3,051	82.3
Male	1,962	1,575	80.3	1,615	82.3
Female	1,745	1,497	85.8	1,438	82.4
American Indian or Alaskan Native	*	*	*	*	*
Asian	645	578	89.6	593	91.9
Black or African American	739	508	68.7	502	67.9
Hawaiian or Other Pacific Islander	*	*	*	*	*
Hispanic of Any Race	331	220	66.4	226	68.2
White	1,683	1,503	89.3	1,478	87.8
Two or More Races	299	258	86.2	248	82.9
English Language Learners (ELL)	288	167	57.9	179	62.1
FARMS**	653	392	60.0	370	56.6
Special Education (SPED)	309	159	51.4	144	46.6

\*To protect student confidentiality, data are not reported for groups of fewer than 10 students.

\*\*Free and Reduced-Price Meals System

Tables 2 and 3, below, present five-year trend data for students overall, by gender, and by service groups. Note that trend data is not available for the racial/ethnic student groups due to implementation of the new federal race codes beginning in 2011.

Each of the service groups has achieved notable five-year gains toward attainment of the local standard (70%) in both reading and mathematics. The proficiency rate for English Language Learners increased 11.2 percentage points in reading and 8.3 percentage points in mathematics. The proficiency rate for students receiving Free and Reduced-Price Meals System (FARMS) services increased 12.7 percentage points in reading and 11.1 percentage points in mathematics. The proficiency rate for students receiving special education services climbed 13.6 percentage points in reading and 2.6 percentage points in mathematics.

Table 2.  
Percentage of Grade 2 Students Achieving Proficient in Reading on the SAT 10 by Student Group, 2007-2011

	2007	2008	2009	2010	2011	5-Year Gain
Overall	80.7	82.5	82.8	83.7	82.9	2.2
Male	77.9	80.4	79.0	82.2	80.3	2.4
Female	83.8	84.8	86.8	85.4	85.8	2.0
ELL	46.7	51.9	54.4	55.4	57.9	11.2
FARMS	47.3	54.9	58.9	63.1	60.0	12.7
SPED	37.8	44.6	42.5	46.9	51.4	13.6

Table 3.  
Percentage of Grade 2 Students Achieving Proficient in Mathematics on the SAT 10  
by Student Group, 2007-2011

	2007	2008	2009	2010	2011	5-Year Gain
Overall	78.1	81.1	81.5	81.7	82.3	4.2
Male	77.6	80.6	80.4	82.2	82.3	4.7
Female	78.7	81.7	82.7	81.2	82.4	3.7
ELL	53.8	56.1	60.4	59.5	62.1	8.3
FARMS	45.5	52.1	52.1	58.4	56.6	11.1
SPED	44.0	43.7	42.9	50.2	46.6	2.6

### 2011 SAT 10 Individual School Results

In 2011, 85 percent of our 40 elementary schools (34) met the standard for reading and 88 percent of schools (35) met the standard for mathematics. Eighty-three percent of schools (33) met the standard for both reading and mathematics.

Several schools that did not meet the standard of 70% proficiency in 2007 have experienced remarkable five-year gains.

- Gorman Crossing increased proficiency rates by 23.3 percentage points in reading and 22.7 percentage points in mathematics, achieving proficiency rates of 89.5 in reading and 85.4 in mathematics.
- Laurel Woods increased the reading proficiency rate by 19.7 points to 74.7 percent.
- Phelps Luck gained 10.6 percentage points in reading, achieving 74.5 percent proficient. In mathematics, Phelps Luck increased the proficiency rate by 22.7 percentage points to 71.5 percent.
- Running Brook gained 10.3 percentage points in reading, achieving a 74.1 percent proficiency rate. The mathematics proficiency rate increased 20.5 percentage points to 75.8 percent proficient.
- St. John's Lane increased the reading proficiency rate by 25.2 percentage points to 95.2 percent. They experienced equally commendable success in mathematics with a 26.5 percentage point gain, achieving 94.1 percent proficiency.

Individual school results are displayed in Table 4, below.

Table 4. Percentage of Grade 2 Students Achieving Proficient in Reading Mathematics on SAT 10 by School, 2007 and 2011

Elementary School	Reading		Mathematics	
	2007	2011	2007	2011
Atholton	75.0	71.7	66.6	73.0
Bellows Spring	85.1	90.7	81.8	83.5
Bollman Bridge	54.4	56.6	56.9	56.6
Bryant Woods	66.1	57.8	54.8	49.1
Bushy Park	90.7	87.6	89.6	87.6
Centennial Lane	91.2	90.4	92.3	93.6
Clarksville	88.7	96.0	88.7	95.1
Clemens Crossing	89.7	95.1	80.8	96.3
Cradlerock	64.7	63.0	60.5	78.0
Dayton Oaks	89.2	91.0	89.2	82.0
Deep Run	69.0	83.3	72.6	78.1
Elkridge	88.7	84.8	84.2	82.0
Forest Ridge	77.9	84.5	74.5	86.0
Fulton	86.2	90.5	88.5	87.0
Gorman Crossing	66.2	89.5	62.7	85.4
Guilford	79.7	80.5	72.1	79.2
Hammond	88.6	95.0	95.4	91.3
Hollifield Station	84.2	80.6	79.6	83.6
Ilchester	95.3	88.1	89.5	88.1
Jeffers Hill	75.9	81.4	72.1	85.1
Laurel Woods	55.0	74.7	47.8	65.2
Lisbon	88.4	82.6	86.9	92.0
Longfellow	74.5	60.3	80.0	63.4
Manor Woods	89.4	91.8	91.3	86.1
Northfield	89.9	88.7	84.4	85.9
Phelps Luck	63.9	74.5	48.8	71.5
Pointers Run	91.1	94.0	81.4	93.0
Rockburn	82.7	68.0	77.5	84.8
Running Brook	63.8	74.1	55.3	75.8
St. John's Lane	70.0	95.2	67.6	94.1
Stevens Forest	73.8	73.6	83.3	84.2
Swansfield	61.4	73.5	57.8	71.5
Talbott Springs	75.4	67.3	88.6	64.4
Thunder Hill	91.4	98.1	91.4	94.3
Triadelphia Ridge	91.3	89.4	86.9	94.7
Veterans	86.8*	84.5	83.9*	83.8
Waterloo	75.5	80.5	86.0	78.7
Waverly	92.1	88.3	89.2	84.0
West Friendship	89.7	78.5	87.1	73.8
Worthington	90.2	91.6	81.9	91.6

\*Results reported for 2008

In addition to the overall results, schools receive data by student group, subtest results, and information on individual student performance. These data provide valuable information for instructional decisions.

## **Summary**

The 2011 SAT 10 results indicate that most students are demonstrating proficiency in reading and mathematics in Grade 2. HCPSS has well exceeded the local standard of 70% of students scoring proficient, and the majority of individual schools have exceeded this standard as well. While the standard was met for the Asian, White, and Two or More Races student groups, the standard was not met for the African American and Hispanic student groups. All of the service groups have experienced significant gains since 2007; yet additional progress is needed to meet or exceed the standard. HCPSS remains committed to providing targeted supports to students so that all students achieve proficiency in reading and mathematics in Grade 2.