

Bernards Township Schools District Testing Report Fall 2008

The Fall 2008 Testing Report includes the New Jersey Department of Education assessments and tests administered by the College Board to include the SAT Reasoning Test, the SAT Subject Tests, and the Advanced Placement Tests. All the tests for the statistical analysis were run for the “Total Students” category, but not for any of the subgroups. Upon recommendation of the New Jersey Department of Education, this report shows scores for large subgroups of students, (n greater than or equal to 40).

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Summary of statistics by Fern Wilson
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New Jersey Department of Education Assessments

The New Jersey Department of Education Assessments are now administered to all students in Grades 3, 4, 5, 6, 7, 8 and 11. The scores on all state assessments range from 100 to 300 as follows. Under the No Child Left Behind Act, all students scoring 200 or above are meeting or exceeding state standards.

Partially Proficient	100-199
Proficient	200-249
Advanced Proficient	250-300

Unless otherwise stated, the charts for the New Jersey assessments display the results for 2008. The following legend is helpful to reference acronyms within the charts.

Chart Legends

- NJASK** – New Jersey Assessment of Skills and Knowledge – administered in Grades 3-7
- GEPA** – Grade Eight Proficiency Assessment – administered in Grade 8
- HSPA** – High School Proficiency Assessment – administered in Grade 11
- GE** – General education students
- SE** – Special education students
- DFG** – District Factor Group – Bernards Township is in the highest DFG (J)

NJ ASK 3 Percent At or Above State Standards

Student Population	Percent (Bernards)	Percent (DFG J)
LA (GE)	99.2	98.5
LA (SE)	93.0	81.4
LA (Total Students)	98.0	96.1
Math (GE)	99.2	98.0
Math (SE)	92.0	84.4
Math (Total Students)	97.6	96.1

NJ ASK 3 Percent At or Above State Standards by Gender

Student Population	Male	Females
LA (Total Students)	97.2	98.7
Math (Total Students)	97.7	97.5

NJASK 3 – District Mean Scale Scores By Year

Student Population	2006	2007	2008
LA (GE)	233.1	234.0	234.5
LA (SE)	222.3	220.3	223.6
LA (Total Students)	231.1	231.5	232.4
Math (GE)	250.4	252.2	254.3
Math (SE)	243.2	236.9	242.5
Math (Total Students)	249.1	249.4	251.9

NJ ASK 3 District Mean Scale Scores By Gender

Student Population	Males	Females
LA (Total Students)	228.8	235.7
Math (Total Students)	251.3	252.5

NJ ASK 3 District Mean Scale Scores By Ethnicity

Student Population	Asian	White
LA (Total Students)	237.8	231.2
Math (Total Students)	257.2	250.9

*Only reported for subgroups with n>40

NJ ASK 3 Mean Scale Scores by School

	OS	CH	LC	MP
LA (GE)	235.5	230.0	235.6	236.5
LA (SE)	222.9	219.7	224.2	226.4
LA (Total Students)	233.7	227.6	233.9	234.0
Math (GE)	251.5	256.4	252.7	256.3
Math (SE)	241.6	240.7	244.3	243.6
Math (Total Students)	250.1	252.7	251.5	253.0

NJ ASK 3 – Summary of Statistics

Language Arts/Literacy

- There is no significant difference in the mean score from 2007 to 2008.
- An ANOVA test on the 3rd grade Language Arts means of the buildings shows there is a significant difference among the buildings.
- All cluster means are at or above the DFG J mean and above the state mean.

Mathematics

- There is a significant difference in the mean score from 2007 to 2008.
- An ANOVA test on the 3rd grade Mathematics means of the buildings shows there is no significant difference among the buildings.
- All cluster means are at or above the DFG J mean and above the state means.

Recommendations

- Provide Reading Recovery training for two Reading Specialists not already trained to assist in the identification of effective reading strategies.
- Develop the Response to Intervention program to allow for early intervention and reduce referrals.
- Professional Development for special education and general education
- Job embedded training through the literacy coach and supervisors
- Systematic staff development to increase teachers' understanding of test format and response construction, particularly in writing

- NJ ASK 4 Percent At or Above State Standards**

Student Population	Percent (Bernards)	Percent (DFG J)
LA (GE)	98.7	97.4
LA (SE)	82.5	76.6
LA (Total Students)	95.6	94.3
Math (GE)	99.5	98.3
Math (SE)	87.7	81.8
Math (Total Students)	97.2	95.9

NJ ASK 4 Percent At or Above State Standards By Gender

Student Population	Male	Females
LA (Total Students)	92.6	99.1
Math (Total Students)	95.5	99.1

NJASK 4 District Mean Scale Scores By Year

Student Population	2006	2007	2008
LA (GE)	232.1	232.1	233.6
LA (SE)	213.9	220.5	215.1
LA (Total Students)	228.9	230.4	230.2
Math (GE)	257.8	258.0	260.1
Math (SE)	236.9	239.7	239.2
Math (Total Students)	254.2	255.4	256.1

NJ ASK 4 District Mean Scale Scores By Gender

Student Population	Males	Females
LA (Total Students)	225.1	236.1
Math (Total Students)	254.0	258.5

NJ ASK 4 District Mean Scale Scores By Ethnicity

Student Population	Asian	White
LA (Total Students)	238.4	228.8
Math (Total Students)	265.8	254.3

*Only reported for subgroups with n>40

NJ ASK 4 Mean Scale Scores By School

	OS	CH	LC	MP
LA (GE)	232.4	229.5	235.5	237.0
LA (SE)	213.3	210.2	215.3	219.9
LA (Total Students)	229.6	226.2	230.8	234.0
Math (GE)	257.1	258.5	260.4	264.0
Math (SE)	240.7	228.3	241.6	243.1
Math (Total Students)	254.7	253.6	255.7	259.9

NJ ASK 4 – Summary of Statistics

Language Art/Literacy

- There is no significant difference in the mean score from 2007 to 2008.
- An ANOVA test on the 4th grade Language Arts means of the buildings shows there is a significant difference among the buildings.
- All cluster means are at or above the DFG J and above the state mean.

Mathematics

- There is no significant difference in the mean score from 2007 to 2008.
- An ANOVA test on the 4th grade Mathematics means of the buildings shows there is no significant difference among the buildings.
- All cluster means are at or above the DFG J mean and above the state mean.

Recommendations

- Provide Reading Recovery training for two Reading Specialists not already trained to assist in the identification of effective reading strategies.
- Develop the Response to Intervention program to allow for early intervention and reduce referrals.
- Increased use of formative assessments
- Systematic staff development to increase teachers' understanding of test format and response construction, particularly in writing

NJ ASK 5, 6, 7 District Mean Scale Scores

Student Population	Grade 5	Grade 6	Grade 7
LA (GE)	234.8	223.3	245.9
LA (SE)	211.9	195.5	212.3
LA (Total Students)	232.2	219.7	241.5
Math (GE)	258.2	254.4	250.5
Math (SE)	228.5	219.9	211.3
Math (Total Students)	254.5	250.2	245.3

NJ ASK 5, 6, 7 District Mean Scale Scores By Gender

Student Population	Grade 5 Male	Grade 5 Females	Grade 6 Males	Grade 6 Females	Grade 7 Males	Grade 7 Females
LA (Total Students)	229.6	234.4	219.0	220.8	237.6	245.6
Math (Total Students)	254.8	254.2	256.1	243.8	246.3	244.3

NJ ASK 5, 6, 7 District Mean Scores By Ethnicity

Student Population	Grade 5 Asian	Grade 5 White	Grade 6 Asian	Grade 6 White	Grade 7 Asian	Grade 7 White
LA (Total Students)	244.0	230.2	229.5	218.6	254.4	240.1
Math (Total Students)	270.5	251.7	270.6	247.4	264.5	243.2

*Only reported for subgroups with n>40

NJ ASK 5 Mean Scale Scores By School

	OS	CH	LC	MP
LA (GE)	226.1	234.0	239.7	238.8
LA (SE)	199.1	209.2	222.4	217.9
LA (Total Students)	222.7	230.9	237.5	236.7
Math (GE)	250.1	259.4	259.5	263.1
Math (SE)	213.5	222.0	240.7	238.3
Math (Total Students)	245.5	254.9	256.3	260.4

NJ ASK Grades 5, 6, 7 Percent of Students At or Above State Standards

Student Population	Grade 5	Grade 6	Grade 7
LA (GE)	95.0	93.1	99.2
LA (SE)	59.6	50.9	68.5
LA (Total Students)	90.9	87.5	95.0
Math (GE)	98.4	99.2	97.3
Math (SE)	70.8	71.9	61.1
Math (Total Students)	95.1	95.8	92.4

NJ ASK 5, 6, 7 Percent of Students At or Above State Standards By Gender

Student Population	Grade 5 Male	Grade 5 Females	Grade 6 Males	Grade 6 Females	Grade 7 Males	Grade 7 Females
LA (Total Students)	86.7	94.4	85.8	89.9	92.7	97.6
Math (Total Students)	92.9	97.0	95.8	96.1	90.4	94.6

NJ ASK 5, 6, and 7 – Summary of Statistics

Grade 5:

Language Arts/Literacy

- An ANOVA test on the 5th grade Language Arts means of the buildings show there is a significant difference in the means among the buildings.
- There was a significant decrease in the mean score from 2007 to 2008.

Mathematics

- An ANOVA test on the 5th grade Mathematics means of the buildings shows there is a significant difference in the means among the buildings.
- There was no significant difference in the mean score from 2007 to 2008.

Grade 6:

Language Arts/Literacy

- There was a significant decrease in the mean score from 2007 to 2008.

Mathematics

- There was a significant increase in the mean score from 2007 to 2008.

Grade 7:

Language Arts/Literacy

- There was a significant increase in the mean score from 2007 to 2008.

Mathematics

- There was a significant increase in the mean score from 2007 to 2008.

Recommendations

- Increased test preparation as part of the Basic Skills classes at William Annin.
- Systematic staff development to increase teachers' understanding of test format and response construction, particularly in writing

GEPA Percent of Students At or Above State Standards

Student Population	Percent (Bernards)	Percent (DFG J)
LA (GE)	99.0	98.8
LA (SE)	87.5	75.3
LA (Total Students)	96.9	95.4
Math (GE)	99.8	95.5
Math (SE)	62.5	57.8
Math (Total Students)	94.2	90.4
Science (GE)	100	99.1
Science (SE)	87.5	83.2
Science (Total Students)	97.8	96.8

GEPA Percent of Students At or Above State Standards By Gender

Student Population	Male	Female
LA (Total Students)	94.5	99.6
Math (Total Students)	93.1	95.2
Science (Total Students)	96.3	99.6

GEPA District Mean Scale Scores By Year

	2004	2005	2006	2007	2008
LA (GE)	236.6	233.6	238.2	237.3	238.8
LA (SE)	214.0	206.5	206.0	214.9	213.9
LA (Total Students)	233.4	231.0	234.5	235.3	235.2
Math (GE)	246.6	244.8	243.7	242.8	257.0
Math (SE)	205.0	200.0	198.6	210.5	209.8
Math (Total Students)	241.8	240.7	238.5	239.7	250.5
Science (GE)	247.6	250.8	247.0	247.3	262.6
Science (SE)	225.4	222.9	221.0	226.9	230.4
Science (Total Students)	244.7	248.2	244.1	245.4	257.8

GEPA District Mean Scale Scores By Gender

Student Population	Male	Female
LA (Total Students)	231.5	239.1
Math (Total Students)	254.5	246.8
Science (Total Students)	259.3	256.6

GEPA District Mean Scale Scores By Ethnicity

Student Population	Asian	White
LA (Total Students)	242.4	234.5
Math (Total Students)	269.2	248.2
Science (Total Students)	264.4	257.2

*Only reported for subgroups with n>40

GEPA – Summary of Statistics

Language Arts/Literacy

- There was no significant difference in the mean scores from 2007 to 2008.
- All cluster means were at or above the DFG J mean and above the state mean.

Mathematics

- There was a significant increase in the mean scores from 2007 to 2008.
- All cluster means were at or above the DFG J mean and above the state mean.

HSPA Percent At or Above State Standards

Student Population	Percent (Bernards)	Percent (DFG J)
LA (GE)	100	99.1
LA (SE)	76.3	77.7
LA (IEP Exempt from Passing)	45.5	45.2
LA (Total)	97.7	96.0
Math (GE)	98.1	97.7
Math (SE)	63.2	66.4
Math (IEP Exempt from Passing)	27.8	30.6
Math (Total)	94.7	93.7

HSPA Percent At or Above State Standards By Gender

Student Population	Male	Female
LA (Total Students)	95.7	99.4
Math (Total Students)	94.4	94.7

HSPA District Mean Scale Scores By Year

Student Population	2005	2006	2007	2008
LA (GE)	250.7	252.7	248.3	242.7
LA (SE)	228.7	228.3	223.5	216.8
LA (IEP Exempt from Passing)	185.4	199.1	206.6	202.3
LA (Total Students)	246.0	249.7	245.3	240.0
Math (GE)	247.5	251.2	250.1	249.0
Math (SE)	229.2	213.9	211.4	213.0
Math (IEP Exempt from Passing)	197.4	188.8	184.7	193.5
Math (Total Students)	243.4	246.7	245.6	245.4

HSPA District Mean Scale Scores By Gender

Student Population	Male	Female
LA (Total Students)	237.3	243.7
Math (Total Students)	246.6	243.8

HSPA District Mean Scale Scores By Ethnicity

Student Population	Asian	White
LA (Total Students)	248.1	239.1
Math (Total Students)	259.1	244.0

*Only reported for subgroups with n>40

Summary of Statistics – HSPA

Language Arts

- The mean score for 2008 is significantly lower than the mean score for 2007.
- All cluster means are at or above the DFG J mean and above the state mean.

Mathematics

- There was no significant difference in the mean scores from 2007 to 2008.
- All cluster means are at or above the DFG J mean and above the state mean.

Recommendations

- Identification of students performing at Partially Proficient levels and schedule in Essential Elements of Language Arts.
- Systematic staff development to increase teachers' understanding of test format and response construction, particularly in writing

College Board Tests

The College Board provides the district with data for tests taken by Ridge High School students. This report provides an overview of the SAT Reasoning Test (formally SAT-I), the SAT Subject Tests (formally SAT II), and the Advanced Placement Tests (AP).

The data provided by the College Board includes the last SAT Reasoning and SAT Subject scores for Ridge High School (RHS) students in the graduating class of 2008. In 2008, the SAT Critical Reading mean score for RHS was **561**, while the state mean was **495** and the national mean was **502**. In 2008, the SAT Math mean score for RHS was **600**, while the state mean was **510** and the national mean was **510**. The SAT Writing mean score for RHS was **559**, while the state mean was **496** and the national mean was **494**.

Mean, 25th and 75th Percentile SAT-Reasoning Test Scores for 2003-2008

Class of	Mean SAT score (MATH)	25th Percentile Score (MATH)	75th Percentile Score (MATH)	Mean SAT score (VERBAL)*	25th Percentile Score (VERBAL)*	75th Percentile Score (VERBAL)*
2003	585	510	670	564	500	630
2004	607	540	680	583	520	660
2005	609	540	680	583	510	650
2006	597	540	660	570	500	640
2007	594	520	660	570	500	640
2008	600	530	670	561	490	630

*Note well: With the addition of the Writing section on the SAT Reasoning Test in 2007, the Verbal section was renamed “Critical Reading”.

Mean, 25th and 75th Percentile SAT-I Scores for Writing 2008

Class of	Mean SAT Score (Writing)	25th Percentile Score (Writing)	75th Percentile Score (Writing)
2007	567	490	650
2008	559	490	630

SAT Reasoning Means By Gender - 2008

	Male	Female
MATH	603	585
CRITICAL READING	556	566
WRITING	542	579

SAT Reasoning Means By Ethnicity - 2008

	Asian*	White
MATH	681	580
CRITICAL READING	598	553
WRITING	595	552

*n = 44

SAT Subject Tests – Mean Scores 2003 - 2008

	Writing	Literature	United States History	Mathematics Level IC	Mathematics Level IIC	Biology	Chemistry	Physics
2003	608	576	606	631	694	621	591	696
2004	630	658	585	634	689	600	602	709
2005	640	661	597	632	699	624	628	692
2006*	650	658	615	642	692	613	645	678
2007		652	631	644	717	663	640	720
2008		631	633	655	678	635	635	688

*Last given in January 2006 (members of the class of 2007 would have taken it during their junior year)

Summary of Statistics – SAT

Critical Reading

- There was a significant decrease in the mean score from 2007 to 2008.
- There was no significant difference between the mean scores of males and females.

Mathematics

- There was no significant difference between the mean score from 2007 to 2008.
- There is a significant difference between the mean scores of males and females. The males outscored the females.

Writing

- There was no significant difference between the mean score from 2007 to 2008.
- There is a significant difference between the mean scores of males and females. The females outscored the males.

Recommendations

- During the 2008-2009 school year an online SAT program will be offered to all students and will enable 9th, 10th and 11th grade students to utilize the program at their own pace. This will be the first year the program is offered the 9th graders, allowing them to begin preparation a year earlier than in the past.

Advanced Placement Tests – 2008

SUBJECT	NUMBER OF STUDENTS IN CLASS	NUMBER OF TESTS TAKEN	NUMBER OF STUDENTS RECEIVING A 3 OR HIGHER	3 OR HIGHER (%) RHS 2008	3 OR HIGHER (%) RHS 2007
STUDIO ART DRAWING	29	16	16	100	*
STUDIO ART 2D	29	8	8	100	*
STUDIO ART 3D	29	1	1	100	*
BIOLOGY	45	45	38	84	93
CALCULUS AB	93	90	70**	78	76
CALCULUS BC	28	28	28	100	92
CHEMISTRY	14	13	10	77	83
COMP SCI A	8	7	7	100	92
ECON-MAC	119	112	100**	89	96
ENG LANG/COMP	80	78	75**	96	91
ENG LIT/COMP	95	87	85	98	96
ENV SCIENCE	100	58	41	71	57
EUROPEAN HIST	40	36	35	97	100
FRENCH LANG	10	3	2**	67	50
GOVT&POL US	119	114	98	86	82
ITALIAN LANG	16	15	13	87	100
LATIN^	20	19	19	100	100
PHYSICS B	97	91	82	90	93
PHYSICS C-E&M	20	20	20	100	91
PHYSICS C-MECH	20	20	20	100	97
SPANISH LANG	20	9	9	100	100
STATISTICS	59	58	56	97	92
US HISTORY	52	51	44	86	88
PSYCHOLOGY	152	146	136	93	96
ECON-MIC*	0	1***	1	100	80
JAPANESE	7	2	1	50	67
MUSIC THEORY	*	*	*	*	100

The AP tests were administered in May 2008. Students receive a score from 1 to 5 on each test and a score of 3 or higher is a passing score. In 2008, approximately 430 students took one or more AP tests, 1128 tests were administered in 26 subjects, and 1015 of the scores reported were a 3 or higher (90%). The chart represents the results of the AP tests administered in May, 2008. The chart shows the number of students who received a final grade in the class, the number of AP tests taken for each of the subjects listed, the number of students receiving a score of three or higher, the percent of all students tested receiving a score of 3 or higher, and the percent of Ridge High School students receiving a score of 3 or higher.

*Class was not offered at RHS

***Number includes students not enrolled in course during 2007/2008

** Number does not include student(s) who took the exam, but score not reported by the College Board.

^Latin Exam alternates each year from literature and Vergil. In 2008 the Latin Vergil exam was taken.

Summary of Statistics – AP Exams

- Correlation between grades on the midterm exam and AP Scores is significant in all classes except Computer Science, Studio Art Drawing and Studio Art 2D Design, indicating that midterm grades are good predictors of AP Scores.
- Correlation between final grade in class and AP Score is significant in all classes except Computer Science, Physics C Mechanics and Studio Art 2D Design, indicating that AP Test is a fair evaluation of our curriculum.
- 6 mean scores went down from 2007 to 2008; 1 of the decreases was statistically significant. It was in Biology.
- 16 mean scores went up from 2007 to 2008; 7 of the increases were statistically significant. They were in Computer Science, Environmental Science, Government & Politics US, Physics C Electricity & Magnetism, Physics C Mechanics, Studio Art Drawing and Studio Art 2D Design