

# Bernards Township Schools District Testing Report 2007

The 2007 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).

Marian Palumbo/Sean Siet  
Summary of statistics by Fern Wilson  
2007

## **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 2007. 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**

<b>Student Population</b>	<b>Percent (Bernards)</b>	<b>Percent (DFG J)</b>
LA (GE)	98.6	98.0
LA (SE)	86.6	78.8
LA (Total Students)	96.4	95.4
Math (GE)	99.8	98.5
Math (SE)	90.4	88.2
Math (Total Students)	98.0	97.0

**NJ ASK 3 Percent At or Above State Standards by Gender**

<b>Student Population</b>	<b>Male</b>	<b>Females</b>
LA (Total Students)	94.7	98.5
Math (Total Students)	96.7	99.5

**NJASK 3 – District Mean Scale Scores By Year**

<b>Student Population</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
LA (GE)	232.4	233.1	234.0
LA (SE)	214.9	222.3	220.3
LA (Total Students)	229.4	231.1	231.5
Math (GE)	248.7	250.4	252.2
Math (SE)	232.9	243.2	236.9
Math (Total Students)	245.9	249.1	249.4

**NJ ASK 3 District Mean Scale Scores By Gender**

<b>Student Population</b>	<b>Males</b>	<b>Females</b>
LA (Total Students)	226.8	237.0
Math (Total Students)	248.1	251.0

**NJ ASK 3 District Mean Scale Scores By Ethnicity**

<b>Student Population</b>	<b>Asian</b>	<b>White</b>
LA (Total Students)	238.5	230.1
Math (Total Students)	266.0	247.6

\*Only reported for subgroups with n>40

**NJ ASK 3 Mean Scale Scores by School**

	<b>OS</b>	<b>CH</b>	<b>LC</b>	<b>MP</b>
LA (GE)	232.6	230.3	237.3	235.0
LA (SE)	221.2	216.7	216.2	224.7
LA (Total Students)	230.8	227.6	233.8	232.8
Math (GE)	248.5	252.8	254.6	252.8
Math (SE)	234.5	238.2	234.5	237.2
Math (Total Students)	246.2	249.9	251.4	249.4

## NJ ASK 3 – Summary of Statistics

### Language Arts/Literacy

- There is no significant difference in the mean score from 2006 to 2007.
- An ANOVA test on the 3<sup>rd</sup> grade Language Arts means of the buildings shows there is no significant difference among the buildings.
- All cluster means are at or above both DFG J and above state means.

### Mathematics

- There is no significant difference in the mean score from 2006 to 2007.
- An ANOVA test on the 3<sup>rd</sup> grade Mathematics means of the buildings shows there is no significant difference among the buildings.
- All cluster means are above both DFG J and 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.

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

<b>Student Population</b>	<b>Percent (Bernards)</b>	<b>Percent (DFG J)</b>
LA (GE)	98.6	97.5
LA (SE)	86.5	78.6
LA (Total Students)	96.9	95.0
Math (GE)	98.9	98.5
Math (SE)	91.5	83.4
Math (Total Students)	97.8	96.5

**NJ ASK 4 Percent At or Above State Standards By Gender**

<b>Student Population</b>	<b>Male</b>	<b>Females</b>
LA (Total Students)	95.8	97.7
Math (Total Students)	97.4	98.2

**NJASK 4 District Mean Scale Scores By Year**

<b>Student Population</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
LA (GE)	234.7	232.1	232.1
LA (SE)	217.6	213.9	220.5
LA (Total Students)	231.8	228.9	230.4
Math (GE)	247.1	257.8	258.0
Math (SE)	238.5	236.9	239.7
Math (Total Students)	245.6	254.2	255.4

**NJ ASK 4 District Mean Scale Scores By Gender**

<b>Student Population</b>	<b>Males</b>	<b>Females</b>
LA (Total Students)	227.2	233.2
Math (Total Students)	256.6	254.4

**NJ ASK 4 District Mean Scale Scores By Ethnicity**

<b>Student Population</b>	<b>Asian</b>	<b>White</b>
LA (Total Students)	239.8	228.9
Math (Total Students)	264.7	254.0

\*Only reported for subgroups with n>40

**NJ ASK 4 Mean Scale Scores By School**

	<b>OS</b>	<b>CH</b>	<b>LC</b>	<b>MP</b>
LA (GE)	226.5	233.0	233.0	235.2
LA (SE)	217.9	218.7	220.7	225.1
LA (Total Students)	225.3	230.9	230.9	233.9
Math (GE)	251.7	256.5	259.4	263.0
Math (SE)	240.6	223.8	245.1	247.2
Math (Total Students)	250.2	251.9	257.0	261.0

## **NJ ASK 4 – Summary of Statistics**

### Language Art/Literacy

- There is no significant difference in the mean score from 2006 to 2007.
- An ANOVA test on the 4<sup>th</sup> grade Language Arts means of the buildings shows there is a significant difference among the buildings.
- All cluster means are above state means.

### Mathematics

- There is no significant difference in the mean score from 2006 to 2007.
- An ANOVA test on the 4<sup>th</sup> grade Mathematics means of the buildings shows there is a significant difference among the buildings.
- All cluster means are above DFG J and 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.

**NJ ASK 5, 6, 7 District Mean Scale Scores**

<b>Student Population</b>	<b>Grade 5</b>	<b>Grade 6</b>	<b>Grade 7</b>
LA (GE)	244.4	235.2	234.8
LA (SE)	223.0	209.5	211.0
LA (Total Students)	240.9	231.6	231.6
Math (GE)	257.4	250.1	240.4
Math (SE)	230.8	221.2	203.3
Math (Total Students)	253.0	246.0	235.2

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

<b>Student Population</b>	<b>Grade 5 Male</b>	<b>Grade 5 Females</b>	<b>Grade 6 Males</b>	<b>Grade 6 Females</b>	<b>Grade 7 Males</b>	<b>Grade 7 Females</b>
LA (Total Students)	238.8	243.3	227.5	236.0	228.5	234.6
Math (Total Students)	255.4	250.1	245.5	246.6	237.4	233.1

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

<b>Student Population</b>	<b>Grade 5 Asian</b>	<b>Grade 5 White</b>	<b>Grade 6 Asian</b>	<b>Grade 6 White</b>	<b>Grade 7 Asian</b>	<b>Grade 7 White</b>
LA (Total Students)	251.2	239.5	240.0	230.6	238.8	230.3
Math (Total Students)	269.7	250.6	259.8	244.5	253.1	232.8

\*Only reported for subgroups with n>40

**NJ ASK 5 Mean Scale Scores By School**

	<b>OS</b>	<b>CH</b>	<b>LC</b>	<b>MP</b>
LA (GE)	241.0	248.0	242.5	246.0
LA (SE)	215.3	225.5	226.9	220.8
LA (Total Students)	238.1	244.8	239.0	241.5
Math (GE)	248.9	263.7	257.4	224.1
Math (SE)	224.3	240.6	234.4	259.7
Math (Total Students)	246.2	260.6	252.2	253.2

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

<b>Student Population</b>	<b>Grade 5</b>	<b>Grade 6</b>	<b>Grade 7</b>
LA (GE)	100	99.2	99.0
LA (SE)	94.3	75.0	78.1
LA (Total Students)	99.1	95.9	95.9
Math (GE)	99.7	99.1	97.4
Math (SE)	82.9	83.9	60.0
Math (Total Students)	96.8	97.1	92.1

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

<b>Student Population</b>	<b>Grade 5 Male</b>	<b>Grade 5 Females</b>	<b>Grade 6 Males</b>	<b>Grade 6 Females</b>	<b>Grade 7 Males</b>	<b>Grade 7 Females</b>
LA (Total Students)	98.7	99.5	94.9	97.1	92.6	99.1
Math (Total Students)	96.6	97.0	96.8	97.5	91.3	92.8

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

### Grade 5:

#### Language Arts/Literacy

- An ANOVA test on the 5<sup>th</sup> grade Language Arts means of the buildings show there is no significant difference in the means among the buildings.
- There was a significant increase in the mean score from 2006 to 2007.

#### Mathematics

- An ANOVA test on the 5<sup>th</sup> 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 2006 to 2007.

### Grade 6:

#### Language Arts/Literacy

- There was no significant difference in the mean score from 2006 to 2007.

#### Mathematics

- There was no significant difference in the mean score from 2006 to 2007.

### Grade 7:

#### Language Arts/Literacy

- There was a significant decrease in the mean score from 2006 to 2007.

#### Mathematics

- There was a significant decrease in the mean score from 2006 to 2007.

#### Recommendations

- Increased test preparation as part of the Basic Skills classes at William Annin.
- Training sessions held by LA, Math, and Special Education supervisor to focus infused test preparation.

**GEPA Percent of Students At or Above State Standards**

<b>Student Population</b>	<b>Percent (Bernards)</b>	<b>Percent (DFG J)</b>
LA (GE)	97.6	97.7
LA (SE)	88.9	72.0
LA (Total Students)	96.8	94.3
Math (GE)	96.2	95.9
Math (SE)	72.3	62.9
Math (Total Students)	93.8	91.7
Science (GE)	98.9	98.8
Science (SE)	91.6	85.6
Science (Total Students)	98.3	96.9

**GEPA Percent of Students At or Above State Standards By Gender**

<b>Student Population</b>	<b>Male</b>	<b>Female</b>
LA (Total Students)	96.5	97.1
Math (Total Students)	94.0	93.8
Science (Total Students)	99.0	97.6

**GEPA District Mean Scale Scores By Year**

	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
LA (GE)	242.1	236.6	233.6	238.2	237.3
LA (SE)	213.7	214.0	206.5	206.0	214.9
LA (Total Students)	238.4	233.4	231.0	234.5	235.3
Math (GE)	246.8	246.6	244.8	243.7	242.8
Math (SE)	201.5	205.0	200.0	198.6	210.5
Math (Total Students)	241.2	241.8	240.7	238.5	239.7
Science (GE)	245.9	247.6	250.8	247.0	247.3
Science (SE)	215.7	225.4	222.9	221.0	226.9
Science (Total Students)	242.0	244.7	248.2	244.1	245.4

**GEPA District Mean Scale Scores By Gender**

<b>Student Population</b>	<b>Male</b>	<b>Female</b>
LA (Total Students)	230.9	239.5
Math (Total Students)	243.9	235.7
Science (Total Students)	250.8	240.1

**GEPA District Mean Scale Scores By Ethnicity**

<b>Student Population</b>	<b>Asian</b>	<b>White</b>
LA (Total Students)	243.1	234.4
Math (Total Students)	250.2	238.3
Science (Total Students)	252.5	244.6

\*Only reported for subgroups with n>40

## **GEPA – Summary of Statistics**

### Language Arts/Literacy

- There was no significant difference in the mean scores from 2006 to 2007.
- All cluster means were above state means and most cluster means were above DFG J means.

### Mathematics

- There was no significant difference between the mean scores from 2006 to 2007.
- All cluster means were above state means and most cluster means were above DFG J means.

**HSPA Percent At or Above State Standards**

<b>Student Population</b>	<b>Percent (Bernards)</b>	<b>Percent (DFG J)</b>
LA (GE)	100.0	99.4
LA (SE)	88.6	84.6
LA (IEP Exempt from Passing)	76.5	59.1
LA (Total)	98.7	97.4
Math (GE)	98.6	97.7
Math (SE)	65.9	66.1
Math (IEP Exempt from Passing)	31.6	37.2
Math (Total)	94.8	93.8

**HSPA Percent At or Above State Standards By Gender**

<b>Student Population</b>	<b>Male</b>	<b>Female</b>
LA (Total Students)	97.6	100.0
Math (Total Students)	92.7	97.2

**HSPA District Mean Scale Scores By Year**

<b>Student Population</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
LA (GE)	245.1	250.7	252.7	248.3
LA (SE)	242.4	228.7	228.3	223.5
LA (IEP Exempt from Passing)	213.8	185.4	199.1	206.6
LA (Total Students)	242.8	246.0	249.7	245.3
Math (GE)	251.9	247.5	251.2	250.1
Math (SE)	243.4	229.2	213.9	211.4
Math (IEP Exempt from Passing)	207.3	197.4	188.8	184.7
Math (Total Students)	248.3	243.4	246.7	245.6

**HSPA District Mean Scale Scores By Gender**

<b>Student Population</b>	<b>Male</b>	<b>Female</b>
LA (Total Students)	240.5	250.8
Math (Total Students)	245.0	246.3

**HSPA District Mean Scale Scores By Ethnicity**

<b>Student Population</b>	<b>Asian</b>	<b>White</b>
LA (Total Students)	249.0	244.9
Math (Total Students)	259.6	243.9

\*Only reported for subgroups with n>40

## Summary of Statistics – HSPA

### Language Arts

- The mean score for 2007 is significantly lower than the mean score for 2006.
- All cluster means are above DFG J and state means.

### Mathematics

- There was no significant difference in the mean scores from 2006 to 2007.
- All cluster means are above state means and most cluster means are above DFG J means.

### Recommendations

- Identification of students performing at Partially Proficient levels and schedule in Essential Elements of Language Arts.

## 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 2007. In 2007, the SAT Critical Reading mean score for RHS was **570**, while the state mean was **495** and the national mean was **502**. In 2007, the SAT Math mean score for RHS was **594**, while the state mean was **510** and the national mean was **515**. The SAT Writing mean score for RHS was **567**, while the state mean was **494** and the national mean was **494**.

### Mean, 25<sup>th</sup> and 75<sup>th</sup> Percentile SAT-Reasoning Test Scores for 2002-2007

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)*
2002	<b>583</b>	500	660	<b>558</b>	490	640
2003	<b>585</b>	510	670	<b>564</b>	500	630
2004	<b>607</b>	540	680	<b>583</b>	520	660
2005	<b>609</b>	540	680	<b>583</b>	510	650
2006	<b>597</b>	540	660	<b>570</b>	500	640
2007	<b>594</b>	520	660	<b>570</b>	500	640

\*Note well: With the addition of the Writing section on the SAT Reasoning Test in 2006, the Verbal section was renamed “Critical Reading”.

### Mean, 25<sup>th</sup> and 75<sup>th</sup> Percentile SAT-I Scores for Writing 2007

Class of	Mean SAT Score (Writing)	25th Percentile Score (Writing)	75th Percentile Score (Writing)
2006	<b>567</b>	490	640
2007	<b>567</b>	490	650

**SAT Reasoning Means By Gender - 2007**

	<b>Male</b>	<b>Female</b>
MATH	618	574
CRITICAL READING	578	563
WRITING	565	568

**SAT Reasoning Means By Ethnicity - 2007**

	<b>Asian*</b>	<b>White</b>
MATH	692	581
CRITICAL READING	637	560
WRITING	630	558

\*n = 44

**SAT Subject Tests – Mean Scores 2007**

	Writing	Literature	United States History	Mathematics Level IC	Mathematics Level IIC	Biology	Chemistry	Physics
2002	630	663	602	627	666	625	592	662
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

\*Last given in January 2005 (members of the class of 2006 would have taken it during their junior year)

## Summary of Statistics – SAT

### Language Arts/Literacy

- There was no significant difference between the mean score from 2006 to 2007.

### Mathematics

- There was no significant difference between the mean score from 2006 to 2007.

### Recommendations

- During the 2007-2008 school year an online SAT program will be offered to all students and will enable 10<sup>th</sup> and 11<sup>th</sup> grade students to utilize the program at their own pace.

### Advanced Placement Tests – 2007

SUBJECT	NUMBER OF STUDENTS IN CLASS	NUMBER OF TESTS TAKEN	NUMBER OF STUDENTS RECEIVING A 3 OR HIGHER	3 OR HIGHER (%) RHS 2007	3 OR HIGHER (%) GLOBAL 2007	3 OR HIGHER (%) RHS 2006
ART	18	18	17	<b>94</b>		*
BIOLOGY	28	27***	25	<b>93</b>		<b>90</b>
CALCULUS AB	91	89***	68	<b>76</b>		<b>88</b>
CALCULUS BC	37	38***	35	<b>92</b>		<b>92</b>
CHEMISTRY	26	23	19	<b>83</b>		<b>75</b>
COMP SCI A	13	13	12	<b>92</b>		<b>0</b>
ECON-MAC	123	117***	112	<b>96</b>		<b>88</b>
ENG LANG/COMP	91	89	81	<b>91</b>		<b>98</b>
ENG LIT/COMP	103	98	94	<b>96</b>		<b>93</b>
ENV SCIENCE	92	69	39	<b>57</b>		<b>75</b>
EUROPEAN HIST	50	47	47	<b>100</b>		<b>100</b>
FRENCH LANG	9	6	3	<b>50</b>		<b>63</b>
GOVT&POL US	123	120***	98	<b>82</b>		<b>81</b>
ITALIAN LANG	5	4	4	<b>100</b>		<b>77</b>
LATIN-LIT	16	16	16	<b>100</b>		<b>100</b>
PHYSICS B	83	82	76	<b>93</b>		<b>100</b>
PHYSICS C-E&M	32	32	29	<b>91</b>		<b>96</b>
PHYSICS C-MECH	32	32	31	<b>97</b>		<b>100</b>
SPANISH LANG	20	16	16	<b>100</b>		<b>0</b>
STATISTICS	49	48***	44	<b>92</b>		<b>100</b>
US HISTORY	46	42	37	<b>88</b>		<b>88</b>
PSYCHOLOGY	164	155***	149	<b>96</b>		<b>96</b>
ECON-MIC*	0	5	4	<b>80</b>		<b>100</b>
JAPANESE	11	3***	2	<b>67</b>		*
MUSIC THEORY		1	1	<b>100</b>		*

The AP tests were administered in May 2007. Students receive a score from 1 to 5 on each test and a score of 3 or higher is a passing score. In 2007, approximately 400 students took one or more AP tests, 1190 tests were administered in 25 subjects, and 1042 of the scores reported were a 3 or higher (88%). The chart represents the results of the AP tests administered in May, 2007. 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 2006/2007

### Summary of Statistics – AP Exams

- Correlation between grades on the midterm exam and AP Scores is significant in all classes except Italian and Art-Drawing, 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 Italian, French and Spanish, indicating that AP Test is a fair evaluation of our curriculum.
- 10 mean scores went down from 2006 to 2007; 3 of the decreases were statistically significant. They were in Environmental Science, AP Calculus and Physics B.
- 9 mean scores went up from 2006 to 2007; 4 of the increases were statistically significant. They were in U.S. History, Econ (MAC), Biology, and English Language

### Recommendations

- Revision to course description of AP Environmental Science and a greater focus on AP courses taken during the Jr. Conferences.