

# SAT<sup>®</sup>

2016 College-Bound Seniors

# State Profile Report



VIRGINIA

## Included in This Report

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**SAT<sup>®</sup> Data**

**SAT Subject Tests<sup>™</sup> Data**

**Demographic and Academic Information**

**College Plans**

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**DATA EMBARGO IN EFFECT.** This report contains information on college-bound students in the class of 2016 who took the pre-March 2016 SAT or SAT Subject Tests at any time during high school. ***Data and other information in this report are embargoed from dissemination to the media and general public until after the College Board makes state and total group-level data and information publically available. The embargo will be lifted no later than September 30, 2016.*** Prior to that time, you may use the data and other information in this report for internal purposes. The College Board will post updated information in the coming weeks about the embargo at <https://collegeboard.org/press>; if you have questions, please contact the College Board communications department at [communications@collegeboard.org](mailto:communications@collegeboard.org).

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# The SAT® Program

The SAT® assesses student reasoning based on knowledge and skills developed by the students in their course work. The SAT Subject Tests™ (formerly known as SAT II: Subject Tests) are a series of one-hour, mostly multiple-choice tests that measure how much students know about a particular academic subject and how well they can apply that knowledge. Most students also complete the optional SAT Questionnaire (formerly known as the Student Descriptive Questionnaire) when they register to take SAT Program tests, providing valuable contextual information to aid in interpreting and understanding individual and group scores. *College-Bound Seniors 2016* includes students who tested through January 2016. The College Board administered the first redesigned SAT in March 2016. While a majority of the Class of 2016 took only the pre-March 2016 SAT, a small percentage took the new SAT. The report includes senior test-takers in this class who took the SAT prior to March 2016. To help schools with the transition to the new SAT, we have included an addendum on results from the March - June 2016 administrations.

## Using This Report

*College-Bound Seniors* presents data on high school graduates in the year 2016 who participated in the SAT Program. Students are counted only once, no matter how often they tested, and only their latest scores and most recent SAT Questionnaire responses are summarized. Because the accuracy of self-reported information has been documented and the college-bound population is relatively stable from year to year, SAT Questionnaire responses from these students can be considered highly accurate. Therefore, you can use this report to:

- Interpret scores of individual students within the broader context of data aggregated across groups of college-bound seniors.
- Study changes over time in the characteristics of students taking SAT tests.
- Look at year-to-year educational and demographic changes in this population, along with changes in test performance.

Keep in mind, however, that:

- Relationships between test scores and other factors such as educational background, gender, racial/ethnic background, parental education, and household income are complex and interdependent. These factors do not directly affect test performance; rather, they are associated with educational experiences both on tests such as the SAT and in schoolwork.
- Not all students in a high school, school district or state take the SAT. Since the population of test-takers is self-selected, using aggregate SAT scores to compare or evaluate teachers, schools, districts, states or other educational units is not valid, and the College Board strongly discourages such uses.
- Interpreting SAT scores for subgroups requires unique considerations. The most significant factor to consider in interpreting SAT scores for any group, or subgroup, of test-takers is the proportion of students taking the test. For example, if state data are being

considered, it is appropriate to recognize that in some states there are lower participation rates. Typically, test-takers in these states have strong academic backgrounds and apply to the nation's most selective colleges and scholarship programs. For these states, it is expected that the SAT mean scores reported for students will be higher than the national average.

## Statistical Definitions

The following terms are used throughout this report. For more statistical information, visit the College Board website at [www.collegeboard.org](http://www.collegeboard.org).

### Mean

The *mean* is the arithmetic average.

### Percentile

The *percentile*, also called the *percentile point*, is the point on the measurement scale below which a specified percentage of scores falls. The 25th, 50th and 75th percentile points are often reported for large data sets. The 50th percentile point is also called the *median* and, like the mean, is an average and a good indicator of the center of the distribution of scores. Comparing the 25th and 75th percentile points gives an idea of the range of scores in the populations reported in this document. Like the standard deviation, the difference between the scores associated with the 75th and 25th percentiles is an indication of the variability of the scores in a particular sample.

### Scaled score

A *scaled score* is a score that has been converted from the raw score (number of questions answered correctly minus a fraction of the incorrect answers) for reporting. The SAT Program uses a 200- to 800-point scale.

### Standard deviation (SD)

The *standard deviation* (SD) is a measure of the variability of a set of scores. If test scores cluster tightly around the mean score, as they do when the group tested is relatively homogeneous, the standard deviation is smaller than it would be with a more diverse group and a greater scatter of scores around the mean.

## About the College Board

The College Board is a mission-driven not-for-profit organization that connects students to college success and opportunity. Founded in 1900, the College Board was created to expand access to higher education. Today, the membership association is made up of over 6,000 of the world's leading educational institutions and is dedicated to promoting excellence and equity in education. Each year, the College Board helps more than seven million students prepare for a successful transition to college through programs and services in college readiness and college success — including the SAT® and the Advanced Placement Program® (AP®). The organization also serves the education community through research and advocacy on behalf of students, educators and schools. For further information, visit [www.collegeboard.org](http://www.collegeboard.org).

# Total Group Mean SAT Scores

## College-Bound Seniors, 1972–2016

<b>Year</b>	<b>Critical Reading</b>			<b>Mathematics</b>			<b>Writing</b>		
	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
1972	531	529	530	527	489	509	-	-	-
1973	523	521	523	525	489	506	-	-	-
1974	524	520	521	524	488	505	-	-	-
1975	515	509	512	518	479	498	-	-	-
1976	511	508	509	520	475	497	-	-	-
1977	509	505	507	520	474	496	-	-	-
1978	511	503	507	517	474	494	-	-	-
1979	509	501	505	516	473	493	-	-	-
1980	506	498	502	515	473	492	-	-	-
1981	508	496	502	516	473	492	-	-	-
1982	509	499	504	516	473	493	-	-	-
1983	508	498	503	516	474	494	-	-	-
1984	511	498	504	518	478	497	-	-	-
1985	514	503	509	522	480	500	-	-	-
1986	515	504	509	523	479	500	-	-	-
1987	512	502	507	523	481	501	-	-	-
1988	512	499	505	521	483	501	-	-	-
1989	510	498	504	523	482	502	-	-	-
1990	505	496	500	521	483	501	-	-	-
1991	503	495	499	520	482	500	-	-	-
1992	504	496	500	521	484	501	-	-	-
1993	504	497	500	524	484	503	-	-	-
1994	501	497	499	523	487	504	-	-	-
1995	505	502	504	525	490	506	-	-	-
1996	507	503	505	527	492	508	-	-	-
1997	507	503	505	530	494	511	-	-	-
1998	509	502	505	531	496	512	-	-	-
1999	509	502	505	531	495	511	-	-	-
2000	507	504	505	533	498	514	-	-	-
2001	509	502	506	533	498	514	-	-	-
2002	507	502	504	534	500	516	-	-	-
2003	512	503	507	537	503	519	-	-	-
2004	512	504	508	537	501	518	-	-	-
2005	513	505	508	538	504	520	-	-	-
2006	505	502	503	536	502	518	491	502	497
2007	503	500	501	532	499	514	487	499	493
2008	502	499	500	532	499	514	486	499	493
2009	502	497	499	533	498	514	485	498	492
2010	502	498	500	533	499	515	485	497	491
2011	500	495	497	531	500	514	482	496	489
2012	498	493	496	532	499	514	481	494	488
2013	499	494	496	531	499	514	482	493	488
2014	499	495	497	530	499	513	481	492	487
2015	497	493	495	527	496	511	478	490	484
2016	495	493	494	524	494	508	475	487	482

Note: For 1972–1986 a formula was applied to the original mean and standard deviation to convert the mean to the recentered scale. For 1987–1995 individual student scores were converted to the recentered scale and then the mean was recomputed. From 1996–1999, nearly all students received scores on the recentered scale. Any score on the original scale was converted to the recentered scale prior to computing the mean. From 2000–2016, all scores are reported on the recentered scale. Cohort data presented prior to 2007 include students testing through March of the senior year, while cohort data from 2007 to 2015 include students testing through June. Cohort data presented for 2016 includes test-takers through January 2016. For further information see [www.collegeboard.org/cbs](http://www.collegeboard.org/cbs).

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## SAT<sup>®</sup> Data

Data in this report are for high school graduates in the year 2016. Information is summarized for seniors who took the SAT at any time during their high school years through January 2016. If a student took the pre-March 2016 SAT more than once, the most recent score is used. A small percentage of seniors take their first SAT between March and June of their senior years.

Table 1: Overall Mean Scores

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Total	57,861	520	108	517	111	498	108	50.3	10.9	6.9	1.6

Table 2: Mean Scores by Gender

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Male	26,748	523	110	534	114	491	110	50.0	11.0	6.7	1.7
Female	31,113	518	106	502	106	503	107	50.5	10.8	7.1	1.5

Table 3: Year in Which Seniors Last Took the SAT

Scores are from the last administration in which seniors took the pre-March 2016 SAT.

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Senior (2015-2016)	37,587	508	102	504	105	484	102	49.0	10.3	6.8	1.6
Junior (2014-2015)	20,110	541	116	540	117	522	115	52.7	11.6	7.1	1.6
Sophomore (2013-2014)	147	558	124	581	130	545	125	55.2	12.1	7.2	1.8
Freshman (2012-2013)	17	548		587		524		54.6		6.4	
Total	57,861	520	108	517	111	498	108	50.3	10.9	6.9	1.6

Table 4: Mean Scores for Total Group

Mean scores for the total group may serve as points of reference when evaluating mean scores for the state.

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Total Group	1,637,589	494	117	508	121	482	115	48.4	11.7	6.9	1.7

## SAT Data

**Table 5: Percentiles for State and Total Group**

A percentile represents the point below which a percentage of scores fall. Comparing the 25th percentile point to the 75th percentile point gives an idea of the range of performance in a group.

SAT Percentile	State			Total Group		
	Critical Reading	Mathematics	Writing	Critical Reading	Mathematics	Writing
75th	590	590	570	570	590	560
50th	520	510	490	490	500	480
25th	440	440	420	410	420	400

**Table 6: Score Distributions**

SAT Score Range	Critical Reading			Mathematics			Writing		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
700–800	1,751	1,742	3,493	2,261	1,390	3,651	980	1,340	2,320
600-690	5,258	5,663	10,921	5,781	4,555	10,336	3,753	4,855	8,608
500-590	8,702	10,173	18,875	8,497	9,688	18,185	7,770	9,582	17,352
400-490	7,809	9,784	17,593	7,290	10,716	18,006	9,057	10,481	19,538
300-390	2,744	3,305	6,049	2,487	4,239	6,726	4,440	4,375	8,815
200-290	484	446	930	432	525	957	748	480	1,228

**Table 7: Type of High School**

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	51,223	90	46	54	516	513	493
Religiously Affiliated	3,335	6	52	48	544	538	529
Independent	2,054	4	54	46	559	566	548
Other or Unknown	1,249		45	55	562	525	530

Note: Percentiles are reported when there are 20 or more test-takers.  
The College Board is no longer collecting data regarding Disabling Conditions.

## Demographic Information

SAT: Mean Scores by Gender Within Ethnicity

Table 8: Total Mean Scores by Ethnicity

SAT Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	213	0	509	100	491	104	483	99
Asian or Asian American	5,389	9	551	116	594	120	544	122
Black or African American	11,133	19	442	95	433	91	420	91
Native Hawaiian or Pacific Islander	41	0	501	106	506	124	474	108
Hispanic, Latino, or Latin American	5,151	9	498	100	492	99	475	99
White	31,912	55	545	97	538	99	520	98
Two or More Races, non-Hispanic	1,644	3	515	103	503	106	488	102
Other	709	1	530	113	521	112	513	111
No Response	1,669	3	529	118	517	117	503	117
Total	57,861	100	520	108	517	111	498	108

Table 9: Male Mean Scores by Ethnicity

SAT Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	91	0	515	92	512	108	476	90
Asian or Asian American	2,610	5	551	119	608	120	537	126
Black or African American	4,903	8	437	96	439	95	407	92
Native Hawaiian or Pacific Islander	22	0	510		527		473	
Hispanic, Latino, or Latin American	2,297	4	502	102	511	103	471	99
White	15,036	26	549	98	556	100	514	98
Two or More Races, non-Hispanic	654	1	520	107	525	111	485	108
Other	283	0	540	112	539	113	519	114
No Response	852	1	525	119	527	116	491	116
Total	26,748	46	523	110	534	114	491	110

Table 10: Female Mean Scores by Ethnicity

SAT Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	122	0	504	106	475	98	489	105
Asian or Asian American	2,779	5	550	114	581	118	551	119
Black or African American	6,230	11	446	94	428	87	430	90
Native Hawaiian or Pacific Islander	19	0	491		482		475	
Hispanic, Latino, or Latin American	2,854	5	495	99	477	93	479	98
White	16,876	29	542	97	522	94	526	97
Two or More Races, non-Hispanic	990	2	512	101	489	100	491	98
Other	426	1	523	114	509	110	509	109
No Response	817	1	534	117	506	117	516	116
Total	31,113	54	518	106	502	106	503	107

## Demographic Information

### SAT: Student Background Information and Characteristics

**Table 11: Student Background Information and Characteristics**

Student demographic information provides a broader context to aid in interpreting and understanding individual and group scores.

SAT	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
All Test-Takers	57,861	100	520	108	517	111	498	108
<b>First Language Learned</b>								
English	47,105	82	521	106	513	107	497	106
English and Another	6,906	12	519	113	526	121	503	116
Another Language	3,411	6	502	120	547	130	498	124
No Response	439		534	123	522	121	508	124
<b>Citizenship</b>								
U.S. Citizen / U.S. National	54,946	96	522	107	516	109	498	107
U.S. Permanent Resident or Refugee	1,394	2	494	122	529	128	488	124
Citizen of Another Country	952	2	489	116	573	136	497	125
Other, Unknown, or No Response	569		454	110	470	123	440	115
<b>Plans to Apply for Financial Aid</b>								
Yes	38,346	75	516	105	509	107	493	105
No	3,809	7	549	101	554	108	530	103
Don't Know	9,058	18	538	109	542	112	518	110
No Response	6,648		501	120	504	123	479	119
<b>Family Income</b>								
Less than \$20,000	2,826	7	450	99	443	96	426	92
About \$20,000 to \$40,000	4,694	12	470	97	465	96	448	95
About \$40,001 to \$60,000	4,676	12	493	97	487	99	469	95
About \$60,001 to \$80,000	4,386	11	511	97	505	96	485	94
About \$80,001 to \$100,000	5,028	13	523	98	517	96	499	96
About \$100,001 to \$140,000	7,117	19	538	96	534	100	514	98
About \$140,001 to \$200,000	5,173	14	553	98	551	102	531	100
More than \$200,000	4,406	12	577	97	581	101	559	101
No Response	19,555		521	116	520	119	500	116
<b>Highest Level of Parental Education</b>								
No High School Diploma	1,580	3	443	98	450	102	423	93
High School Diploma	13,410	24	470	94	466	96	446	91
Associate Degree	4,235	8	482	92	475	89	457	88
Bachelor's Degree	18,461	34	531	98	529	102	509	99
Graduate Degree	17,356	32	569	105	565	109	548	107
No Response	2,819		480	121	484	123	460	119
<b>Took the PSAT/NMSQT®</b>								
Yes, As a Junior	7,412	17	518	109	519	111	499	109
Yes, As a Sophomore or Younger	11,655	26	525	101	523	104	502	101
Yes, As a Junior and As a Sophomore or Younger	21,370	48	559	103	559	105	541	103
No	4,034	9	479	102	474	100	456	97
No Response	13,390		466	97	455	96	437	91

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.



## Academic Information

## Academic Record

Table 12: High School Rank

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Highest Tenth	7,577	34	44	56	593	598	576
Second Tenth	5,998	27	46	54	529	529	506
Second Fifth	4,313	19	51	49	498	495	471
Final Three Fifths	4,568	20	50	50	449	441	424
No Response	35,405		46	54	515	510	492

Table 13: High School Grade Point Average

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
A+ (97–100)	4,119	7	38	62	605	606	590
A (93–96)	12,103	22	40	60	580	583	563
A- (90–92)	10,572	19	44	56	542	542	521
B (80–89)	23,810	43	49	51	486	480	461
C (70–79)	4,576	8	59	41	427	417	398
D, E, or F (below 70)	84	0	60	40	391	380	374
No Response	2,597		51	49	493	481	465
<b>Mean Grade Point Average</b>	<b>All Students: 3.41</b>		<b>Male: 3.34</b>		<b>Female: 3.48</b>		

Table 14: Average Years of Study in Six Academic Subjects

SAT	Average Years of Study			Grade Point Average: Each Subject		
	Male	Female	Total	Male	Female	Total
Arts and Music	2.0	2.5	2.3	3.83	3.91	3.88
English and Language Arts	3.9	3.9	3.9	3.39	3.59	3.50
Foreign and Classical Languages	3.3	3.4	3.4	3.27	3.48	3.39
Mathematics	4.1	4.1	4.1	3.19	3.23	3.21
Natural Sciences	3.8	3.9	3.8	3.38	3.42	3.40
Social Sciences and History	3.9	3.9	3.9	3.49	3.50	3.50
<b>Total for All Subjects</b>	<b>21.0</b>	<b>21.7</b>	<b>21.4</b>			

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

## Academic Information

## Course-Taking Patterns

Table 15: English, Mathematics

English and Language Arts Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	8,520	18	43	57	543	539	526
4 Years	32,445	68	45	55	534	528	510
3 Years	3,953	8	46	54	484	481	461
2 Years	923	2	47	53	489	493	469
1 Year	671	1	42	58	470	475	449
1/2 Year or Less	1,218	3	51	49	430	440	408
No Response	10,131		51	49	487	489	465
AP®/Honors Courses	27,613	58	40	60	561	554	539
<b>Course Work or Experience</b>							
English/Language Arts	47,128	97	45	55	522	517	500
Journalism	4,088	8	31	69	533	514	514
Creative Writing	6,390	13	37	63	532	512	511
American Literature	21,442	44	44	56	540	532	518
Composition/Writing	18,953	39	42	58	532	522	511
British Literature	9,003	19	43	57	543	530	519
World Literature	8,949	18	47	53	545	535	522
Communications	1,795	4	46	54	514	510	497
Public Speaking	4,356	9	44	56	532	521	512
English As Second Language	1,448	3	44	56	455	502	453

Mathematics Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	18,542	37	46	54	562	570	541
4 Years	23,542	47	45	55	518	507	494
3 Years	4,661	9	46	54	467	449	442
2 Years	850	2	50	50	457	467	442
1 Year	625	1	48	52	472	486	452
1/2 Year or Less	1,919	4	45	55	434	428	411
No Response	7,722		50	50	490	491	468
AP/Honors Courses	23,504	47	46	54	569	580	548
<b>Highest Level of Mathematics Achieved*</b>							
Calculus	18,232	36	50	50	584	603	565
Pre-calculus	11,536	23	43	57	522	514	499
Geometry	19,959	39	43	57	468	447	442
Algebra II	1,132	2	46	54	485	464	457
Algebra I	137	0	58	42	386	356	364

\*To better reflect the relationship between students' SAT scores and their Mathematics course work, course work is now being displayed as the highest level of mathematics achieved. This means that each student is counted only once under their highest level of mathematics course taken.

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

## Academic Information

## Course-Taking Patterns

Table 16: Natural Sciences, Social Sciences and History

Natural Sciences	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	9,326	20	44	56	558	562	539	
4 Years	28,021	60	45	55	534	528	511	
3 Years	6,325	13	46	54	482	471	458	
2 Years	1,234	3	50	50	487	490	465	
1 Year	719	2	49	51	485	490	463	
1/2 Year or Less	1,389	3	45	55	437	438	414	
No Response	10,847		51	49	489	490	467	
AP/Honors Courses	22,239	47	44	56	568	570	547	
<b>Course Work or Experience</b>								
Biology	48,836	98	45	55	522	518	500	
Chemistry	45,727	92	45	55	530	527	508	
Physics	27,437	55	51	49	553	559	531	
Geology, Earth, or Space Science	31,995	64	45	55	509	501	485	
Other Sciences	17,183	34	40	60	510	501	488	

  

Social Sciences and History	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	8,469	18	44	56	554	550	535	
4 Years	30,238	65	45	55	533	528	510	
3 Years	5,000	11	47	53	486	483	464	
2 Years	1,237	3	51	49	482	490	462	
1 Year	723	2	47	53	474	480	455	
1/2 Year or Less	1,064	2	45	55	426	433	406	
No Response	11,130		51	49	489	491	467	
AP/Honors Courses	25,391	54	44	56	564	559	541	
<b>Course Work or Experience</b>								
U.S. History	47,035	95	45	55	523	519	500	
World History or Cultures	43,206	88	45	55	525	521	502	
U.S. Government or Civics	41,196	83	44	56	525	520	502	
Economics	24,906	50	45	55	536	532	514	
Geography	12,581	25	44	56	516	511	493	
Psychology	15,049	30	34	66	543	532	522	
European History	7,804	16	48	52	563	552	539	
Sociology	4,568	9	34	66	518	500	493	
Ancient History	6,461	13	50	50	542	536	517	
Other Courses	5,337	11	43	57	536	527	514	

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

## Academic Information

### Course-Taking Patterns

Table 17: Foreign and Classical Languages

Foreign and Classical Languages Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	7,564	16	39	61	585	581	569
4 Years	13,643	29	44	56	551	546	531
3 Years	19,069	41	47	53	511	508	485
2 Years	3,241	7	50	50	478	466	452
1 Year	1,017	2	51	49	448	439	421
1/2 Year or Less	2,059	4	51	49	436	439	413
No Response	11,268		51	49	488	489	465
AP/Honors Courses	9,544	20	40	60	587	586	572
<b>Course Work or Experience</b>							
Chinese	649	1	47	53	576	602	559
French	9,416	19	37	63	535	522	511
German	2,883	6	60	40	545	534	511
Greek	96	0	43	57	564	532	538
Hebrew	39	0	46	54	500	474	482
Italian	245	1	41	59	533	519	512
Japanese	597	1	49	51	549	548	516
Korean	124	0	37	63	517	558	510
Latin	6,317	13	48	52	557	545	529
Russian	236	0	51	49	565	555	542
Spanish	33,645	69	45	55	514	511	493
Other Languages	1,534	3	37	63	501	496	479

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

## Academic Information

### Course-Taking Patterns

Table 18: Arts and Music

<b>Arts and Music</b> <b>Years of Study</b>	<b>Test-Takers</b>		<b>Percent by Gender</b>		<b>SAT Mean Scores</b>		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	3,981	15	35	65	546	533	524
4 Years	4,650	17	36	64	544	529	521
3 Years	2,994	11	37	63	515	503	491
2 Years	4,389	16	40	60	513	505	490
1 Year	5,074	19	47	53	518	516	495
1/2 Year or Less	6,300	23	53	47	491	491	465
No Response	30,473		50	50	521	522	499
AP/Honors Courses	2,798	10	34	66	560	545	537
<b>Course Work or Experience</b>							
Acting or Play Production	7,231	16	31	69	556	528	531
Art History or Appreciation	5,899	13	35	65	524	507	502
Dance	4,205	9	11	89	518	502	502
Drama: Study or Appreciation	6,845	15	31	69	535	512	512
Music: Study or Appreciation	4,687	10	45	55	549	532	527
Music Performance	18,999	42	41	59	542	534	521
Photography or Film	8,936	20	31	69	523	511	503
Studio Art and Design	8,587	19	32	68	538	528	518
None	10,518	23	59	41	504	510	479

SAT Subject Tests™ Data

Table 19: Number of Test-Takers and Tests for SAT Subject Tests

Students Who Took SAT Subject Tests		Students Who Took an SAT Subject Test and Also Took the SAT			
Number of Test-Takers	Number of Tests	Number of Test-Takers	Critical Reading Mean	Mathematics Mean	Writing Mean
8,766	21,969	8,071	636	652	626

  

Students Who Took One or More Different SAT Subject Tests		
Number of Tests Taken	Number of Test-Takers	Percent of Total Test-Takers Who Took One or More Tests
1	790	9
2	3,925	45
3	3,164	36
4 or More	887	10

Table 20: Mean Scores for SAT Subject Test Takers and for Students Who Also Took the SAT

Most, but not all, students who take SAT Subject Tests also take the SAT. This table provides SAT Subject Test scores for students who took SAT Subject Tests. It also provides the SAT scores for those students who also took the pre-March 2016 SAT.

	SAT Subject Test			SAT						
	N	Mean	SD	N	Critical Reading Mean	SD	Mathematics Mean	SD	Writing Mean	SD
<b>English</b>										
Literature	2,663	616	111	2,351	643	99	619	97	629	101
<b>History and Social Studies</b>										
U.S. History	4,030	635	103	3,680	643	88	640	93	629	92
World History	759	631	100	703	662	80	657	89	644	86
<b>Mathematics</b>										
Mathematics Level 1	2,736	602	106	2,411	604	97	623	94	597	98
Mathematics Level 2	4,921	687	89	4,624	653	84	692	73	647	85
<b>Science</b>										
Biology-E	1,023	613	105	926	632	93	632	100	619	98
Biology-M	1,095	649	97	1,027	643	91	659	92	635	95
Chemistry	2,014	665	96	1,883	654	89	693	80	648	89
Physics	1,272	661	88	1,185	662	84	711	70	650	87
<b>Foreign and Classical Languages</b>										
Chinese/Listening	65	746	92	63	598	119	683	84	600	121
French	259	596	110	244	658	77	644	84	652	79
French/Listening	54	636	109	51	665	88	650	74	659	85
German	32	628	132	30	641	75	648	76	636	72
German/Listening	21	601		19	652		657		638	
Modern Hebrew	1			1						
Italian	2			2						
Japanese/Listening	30	637	150	28	624	107	670	96	608	108
Korean/Listening	61	765	63	57	580	122	675	107	613	124
Latin	186	619	114	173	692	75	673	80	675	78
Spanish	653	613	109	601	646	86	644	89	645	87
Spanish/Listening	92	625	117	83	639	87	638	85	641	88

SAT Subject Tests Score Distributions

Table 21: English, History and Social Studies

SAT Subject Tests	English		History and Social Studies			
	Literature		U.S. History		World History	
	N	Pct	N	Pct	N	Pct
750-800	254	10	543	13	108	14
700-740	451	17	752	19	120	16
650-690	542	20	772	19	130	17
600-640	463	17	737	18	127	17
550-590	341	13	487	12	105	14
500-540	195	7	313	8	95	13
450-490	144	5	186	5	49	6
400-440	129	5	116	3	17	2
350-390	110	4	100	2	8	1
300-340	31	1	22	1		
250-290	3	0	2	0		
200-240						
Total	2,663		4,030		759	
Mean	616		635		631	
SD	111		103		100	
75th percentile	700		710		710	
50th percentile	640		650		630	
25th percentile	550		570		560	

Table 22: Mathematics, Science

SAT Subject Tests	Mathematics				Science							
	Mathematics Level 1		Mathematics Level 2		Biology-E		Biology-M		Chemistry		Physics	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800	129	5	1,642	33	100	10	177	16	479	24	252	20
700-740	421	15	783	16	125	12	219	20	392	19	233	18
650-690	536	20	874	18	201	20	211	19	352	17	242	19
600-640	520	19	790	16	212	21	215	20	327	16	256	20
550-590	413	15	548	11	152	15	110	10	216	11	159	13
500-540	248	9	176	4	100	10	86	8	128	6	79	6
450-490	172	6	68	1	53	5	38	3	71	4	37	3
400-440	163	6	31	1	32	3	21	2	42	2	13	1
350-390	109	4	6	0	32	3	11	1	7	0	1	0
300-340	22	1	3	0	15	1	6	1				
250-290	3	0			1	0	1	0				
200-240												
Total	2,736		4,921		1,023		1,095		2,014		1,272	
Mean	602		687		613		649		665		661	
SD	106		89		105		97		96		88	
75th percentile	680		770		690		720		740		730	
50th percentile	620		690		620		660		680		670	
25th percentile	540		620		550		590		600		600	

SAT Subject Tests Score Distributions

Table 23: Foreign and Classical Languages

SAT Subject Tests	Foreign and Classical Languages											
	Chinese/Listening		French		French/Listening		German		German/Listening		Modern Hebrew	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800	49	75	29	11	12	22	10	31	4	19		
700-740	4	6	32	12	6	11	2	6	4	19		
650-690	5	8	33	13	8	15	3	9	1	5		
600-640	3	5	25	10	8	15	2	6	2	10		
550-590			45	17	4	7	4	13	4	19		
500-540	1	2	46	18	11	20	3	9	1	5		
450-490			28	11	4	7	6	19	1	5		
400-440	2	3	16	6	1	2	2	6	1	5	1	100
350-390	1	2	4	2					2	10		
300-340			1	0								
250-290									1	5		
200-240												
Total	65		259		54		32		21		1	
Mean	746		596		636		628		601			
SD	92		110		109		132					
75th percentile	800		690		740		770		710			
50th percentile	780		580		640		600		590			
25th percentile	730		510		540		490		490			

Table 24: Foreign and Classical Languages (continued)

SAT Subject Tests	Foreign and Classical Languages											
	Italian		Japanese/Listening		Korean/Listening		Latin		Spanish		Spanish/Listening	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800	1	50	10	33	49	80	32	17	83	13	15	16
700-740	1	50	5	17	6	10	30	16	84	13	13	14
650-690			1	3	1	2	20	11	97	15	15	16
600-640			3	10	2	3	24	13	105	16	18	20
550-590			3	10	2	3	22	12	106	16	5	5
500-540			2	7	1	2	25	13	78	12	11	12
450-490			1	3			21	11	50	8	6	7
400-440			2	7			11	6	34	5	6	7
350-390							1	1	11	2	2	2
300-340			3	10					4	1	1	1
250-290									1	0		
200-240												
Total	2		30		61		186		653		92	
Mean			637		765		619		613		625	
SD			150		63		114		109		117	
75th percentile			760		800		710		700		730	
50th percentile			660		790		620		620		640	
25th percentile			530		760		530		540		530	



## College Plans

Table 25: Intended College Major, Degree-Level Goal

SAT Intended College Major	Test-Takers		Mean Scores		
	Number	Pct	Critical Reading	Mathematics	Writing
Agriculture, Agriculture Operations, and Related Sciences	479	1	495	487	473
Architecture and Related Services	607	1	517	541	499
Area, Ethnic, Cultural and Gender Studies	66	0	568	526	540
Biological and Biomedical Sciences	3,630	7	548	546	527
Business Management, Marketing, and Related Support Services	5,674	11	510	518	491
Communication, Journalism and Related Programs	1,121	2	527	496	510
Computer and Information Sciences and Support Services	2,466	5	550	568	518
Construction Trades	17	0	469	476	463
Education	2,097	4	502	488	485
Engineering	5,421	11	552	584	524
Engineering Technologies/Technicians	695	1	502	527	474
English Language and Literature/Letters	555	1	591	524	568
Family and Consumer Sciences/Human Sciences	133	0	467	456	454
Foreign Languages, Literatures, and Linguistics	334	1	597	555	573
Health Professions and Related Clinical Services	9,253	18	500	496	484
History	586	1	550	506	508
Legal Professions and Studies	1,219	2	534	513	511
Liberal Arts and Sciences, General Studies, and Humanities	410	1	574	533	556
Library Science And Administration	8	0	578	516	519
Mathematics and Statistics	387	1	555	613	548
Mechanic and Repair Technologies/Technician	76	0	434	449	401
Military Technologies And Applied Sciences	412	1	505	502	465
Multi/Interdisciplinary Studies	450	1	596	583	575
Natural Resources and Conservation	319	1	545	521	512
Parks, Recreation, Leisure and Fitness Studies	430	1	448	458	428
Personal and Culinary Services	121	0	458	445	431
Philosophy and Religious Studies	115	0	560	529	535
Physical Sciences	841	2	576	578	546
Precision Production	6	0	453	473	423
Psychology	2,339	5	514	487	493
Public Administration and Social Services Professions	195	0	512	483	496
Security and Protective Services	1,642	3	476	470	453
Social Sciences	1,114	2	572	543	544
Theology and Religious Vocations	83	0	560	529	540
Transportation and Materials Moving	16	0	509	511	474
Visual and Performing Arts	3,375	7	525	498	501
Other	693	1	479	477	457
Undecided	3,252	6	557	557	534
<b>Degree-Level Goal</b>					
Certificate Program	213	0	447	443	424
Associate Degree	317	1	425	411	403
Bachelor's Degree	14,236	28	496	491	470
Master's Degree	18,464	36	528	526	507
Doctoral or Related Degree	12,247	24	547	543	527
Other	173	0	434	435	416
Undecided	5,904	11	533	529	509

## College Plans

Table 26: Institutions That Received the Most SAT Program Score Reports from Your Students

Of the 58,556 students from your state who took the SAT and/or an SAT Subject Test, 44,742 designated that their score reports be sent to institutions. Students may designate more than one institution to receive scores. This list includes only the 45 institutions that received the most score reports. A total of 2,098 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
James Madison University	VA	Public	13,967	31.2
Virginia Commonwealth University	VA	Public	12,265	27.4
Virginia Tech	VA	Public	11,824	26.4
University of Virginia	VA	Public	10,778	24.1
George Mason University	VA	Public	10,643	23.8
Old Dominion University	VA	Public	7,693	17.2
Christopher Newport University	VA	Public	6,344	14.2
College of William and Mary	VA	Public	6,050	13.5
Radford University	VA	Public	5,300	11.8
University of Mary Washington	VA	Public	4,248	9.5
Longwood University	VA	Public	3,832	8.6
Bridgewater College	VA	Private	2,263	5.1
Virginia Tech Center for Teacher Education	VA	Public	2,192	4.9
NCAA Eligibility Center	IN	Public	2,124	4.7
Liberty University	VA	Private	2,112	4.7
University of Richmond	VA	Private	1,945	4.3
West Virginia University	WV	Public	1,773	4.0
University of North Carolina at Chapel Hill	NC	Public	1,747	3.9
Penn State University Park	PA	Public	1,667	3.7
University of South Carolina: Columbia	SC	Public	1,621	3.6
Lynchburg College	VA	Private	1,520	3.4
Virginia State University	VA	Public	1,510	3.4
Duke University	NC	Private	1,433	3.2
Norfolk State University	VA	Public	1,406	3.1
Hampton University	VA	Private	1,388	3.1
Randolph-Macon College	VA	Private	1,297	2.9
Cornell University	NY	Private	1,296	2.9
East Carolina University	NC	Public	1,285	2.9
North Carolina State University	NC	Public	1,266	2.8
University of Maryland: College Park	MD	Public	1,172	2.6
University of Pennsylvania	PA	Private	1,136	2.5
Clemson University	SC	Public	1,134	2.5
Roanoke College	VA	Private	1,127	2.5
Georgetown University	DC	Private	1,080	2.4
Shenandoah University	VA	Private	1,075	2.4
George Washington University	DC	Private	1,075	2.4
New York University	NY	Private	1,056	2.4
Princeton University	NJ	Private	1,019	2.3
Georgia Institute of Technology	GA	Public	1,014	2.3
Harvard College	MA	Private	1,003	2.2
Stanford University	CA	Private	966	2.2
Johns Hopkins University	MD	Private	963	2.2
Virginia Union University	VA	Private	933	2.1
University of Michigan	MI	Public	895	2.0
University of Alabama	AL	Public	866	1.9

\*Of your students who designated that their SAT and/or SAT Subject Test score reports be sent to institutions, the 'Percent of Score Senders' indicates the percent of those students who had their scores sent to each institution listed.

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