

MEMORANDUM

October 18, 2013

TO: Board Members

FROM: Terry B. Grier, Ed.D.
Superintendent of SchoolsSUBJECT: **SAT RESULTS: CLASS OF 2013**

CONTACT: Carla Stevens, Research and Accountability, (713) 556-6700

The SAT is a college admissions exam that assesses student's reasoning based on knowledge and skills developed in their course work. Colleges use SAT scores to make admission decisions, recruit students, place students in appropriate courses, and to predict student performance at the college-level. The SAT results for the class of 2013 have been released by the College Board and are provided in this report.

The number of graduating seniors in 2013 with SAT results was 9,130, a decrease of 350 students taking the test over the 9,480 students tested in 2012 (see **Table 1**). In 2013, 89.8 percent of seniors were tested compared to 92.3 percent in 2012. The most notable decreases were among African American students with a decrease of 191 students followed by Hispanic students with a decrease of 108 students.

Group	2012	2013
American Indian	33	34
Asian	456	424
African American	2,654	2,463
Hispanic	5,063	4,955
White	890	866
Other	190	196
No Response	194	192
Female	4,834	4794
Male	4,646	4336
Total Tested	9,480	9,130
Total Seniors	10,271	10,172
Percent Tested	92.3%	89.8%

Average SAT scores of public school students in HISD, Texas and the nation, for the graduating classes of 2012 and 2013 showed modest changes across the years (see **Tables 2a and 2b**):

- The average critical reading SAT score of 410 for HISD did not change between 2012 and 2013 while the state average increased by 1 point, and the nation remained unchanged.
- The average mathematics score increased by 1 point, from 439 to 440, while the state remained unchanged at 496, and the national public school scores decreased by 2 points.
- The average writing score decreased by 4 points, from 406 to 402, while the state remained unchanged at 456, and the national scores decreased by 1 point.

Table 2a. Average SAT Scores of HISD, Texas and National Students, Graduating Classes of 2012 and 2013 (All Students)

Group	Critical Reading		Mathematics		Writing	
	2012	2013	2012	2013	2012	2013
HISD	410	410	439	440	406	402
Texas	474	477	499	499	461	461
Nation	496	496	514	514	488	488

Table 2b. Average SAT Scores of HISD, Texas and National Students, Graduating Classes of 2012 and 2013 (Public School Students Only)

Group	Critical Reading		Mathematics		Writing	
	2012	2013	2012	2013	2012	2013
HISD	410	410	439	440	406	402
Texas	470	471	496	496	456	456
Nation	491	491	505	503	481	480

The average SAT scores by student groups are provided in **Table 3** for 2012 and 2013. The comparison between the two years shows that between 2012 and 2013:

- **African American** students increased performance by 1 point in critical reading and 2 points in mathematics.
- **Hispanic** students increased performance by 2 points in critical reading and 2 points in mathematics.
- **Female** students increased performance by 2 points in critical reading and 5 points in mathematics.
- Large decreases in performance include:
 - **Asian** students (mathematics -18, writing -13)
 - **White** students (critical reading -8, writing -12)

Table 3. Average SAT Scores by Student Group, Classes of 2012 and 2013

	Tested N			Critical Reading			Mathematics			Writing		
	2012	2013	Diff.	2012	2013	Diff.	2012	2013	Diff.	2012	2013	Diff.
American Indian	33	34	1	430	421	-9	439	429	-10	408	407	-1
Asian	456	424	-32	515	512	-3	589	571	-18	522	509	-13
African American	2,654	2,463	-191	387	388	1	406	408	2	385	381	-4
Hispanic	5,063	4,955	-108	389	391	2	424	426	2	385	383	-2
White	890	866	-24	543	535	-8	557	554	-3	534	522	-12
Other	190	196	6	451	458	7	463	458	-5	445	439	-6
No Response	194	192	-2	362	361	-1	383	391	8	347	344	-3
Female	4,834	4,794	-40	411	413	2	431	436	5	415	413	-2
Male	4,646	4,336	-310	408	407	-1	448	444	-4	396	390	-6
Total	9,480	9,130	-350	410	410	0	439	440	1	406	402	-4

Four and five-year trend data of SAT participation and performance, broken down by subject and/or ethnicity for the district, are presented in **Figures 1-8**. **Figure 9** presents the results in 2013 by campus.

Figure 1 shows the number of students tested on the SAT by student group and for all students for the classes of 2009 through 2013.

- Since 2009, **African American** participation has increased by 78 percent.
- **Hispanic** participation has increased by 158 percent from 2009 to 2013.

Figure 1. HISD SAT Number Tested
Classes of 2009-2013

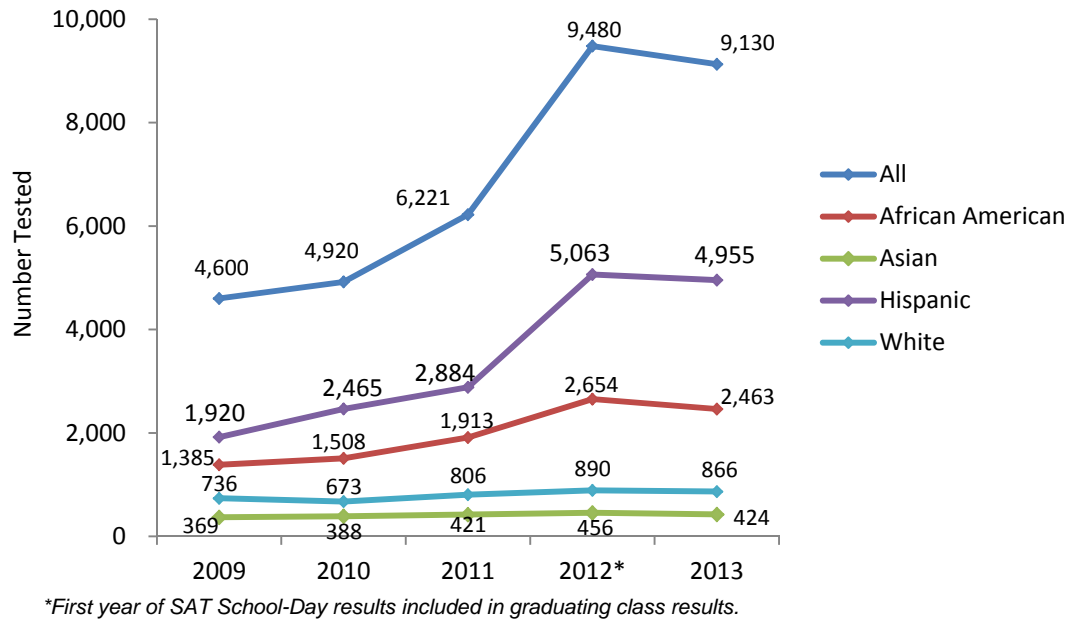


Figure 2 shows total mean SAT scores for HISD seniors for the total group as well as by ethnicity for the classes of 2009 through 2013.

- Among **Hispanic** students, mean SAT scores increased by 2 points between 2012 and 2013. All other groups showed a decrease in scores.

Figure 2. HISD Mean SAT Composite Scores
(Reading + Mathematics + Writing)
Classes of 2009-2013

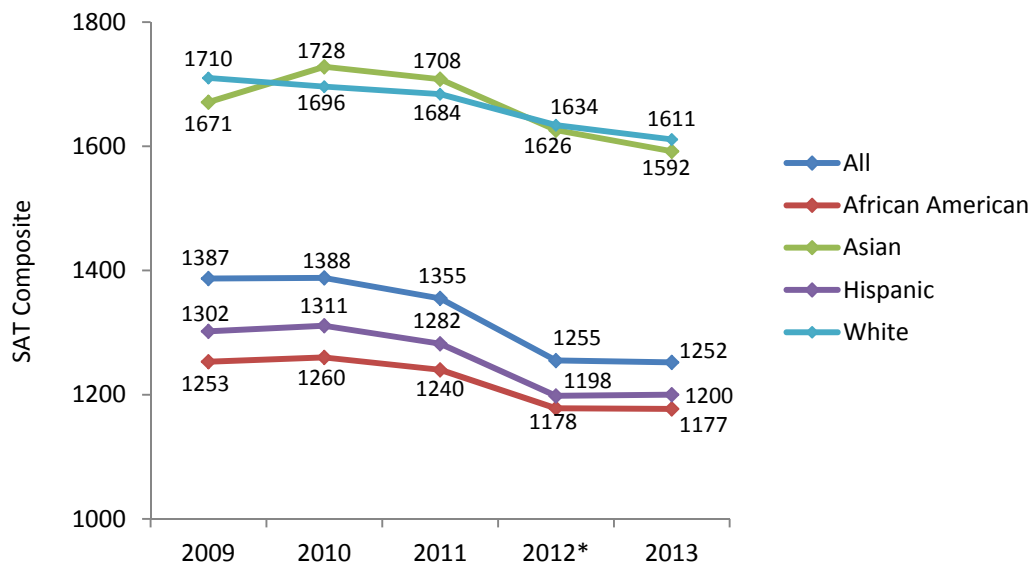


Figure 3 shows the number of HISD students who scored at or above 500 on any subject of the SAT for the classes of 2010 through 2013.

- 291 more students scored at least 500 in critical reading in 2013, an 18-percent increase from 2010. However, the numbers showed a 6-percent decrease from the previous year.
- 682 more students scored 500 or higher in math in 2013, a 35-percent increase compared to 2010. However, this was a 4-percent decrease from the previous year.

**Figure 3. Number of HISD Students With SAT Subject Scores \geq 500
Classes of 2010-2013**

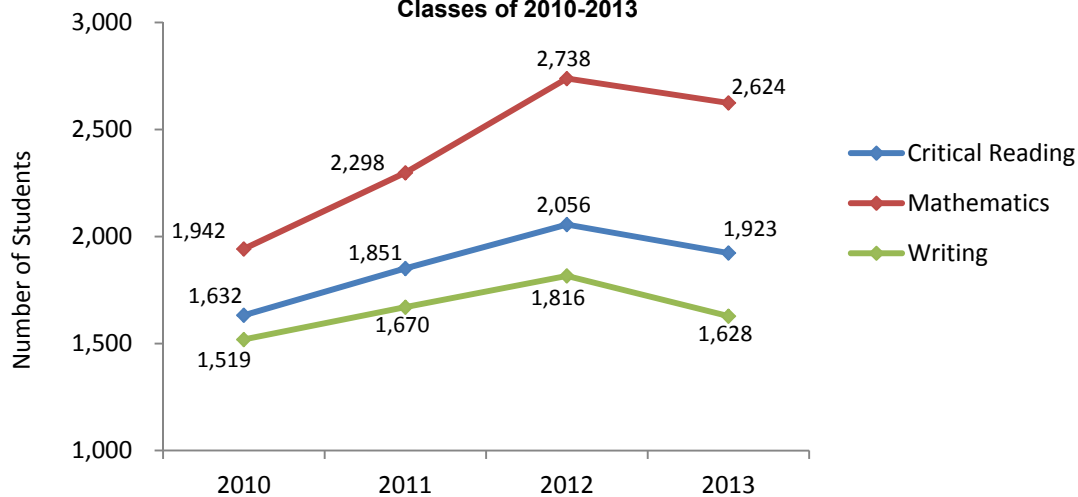


Figure 4 shows the number of HISD students who scored at or above 500 in SAT **Critical Reading** for the classes of 2010 through 2013 by ethnicity.

- Among **All** students, the number scoring 500 or better has increased 18-percent since 2010.
- Among **Hispanic** students, the number increased 39 percent, for **African American** students 19 percent, and for **White** students 11 percent.

**Figure 4. Number of HISD Students with SAT Critical Reading Scores \geq 500 by Ethnicity
Classes of 2010-2013**

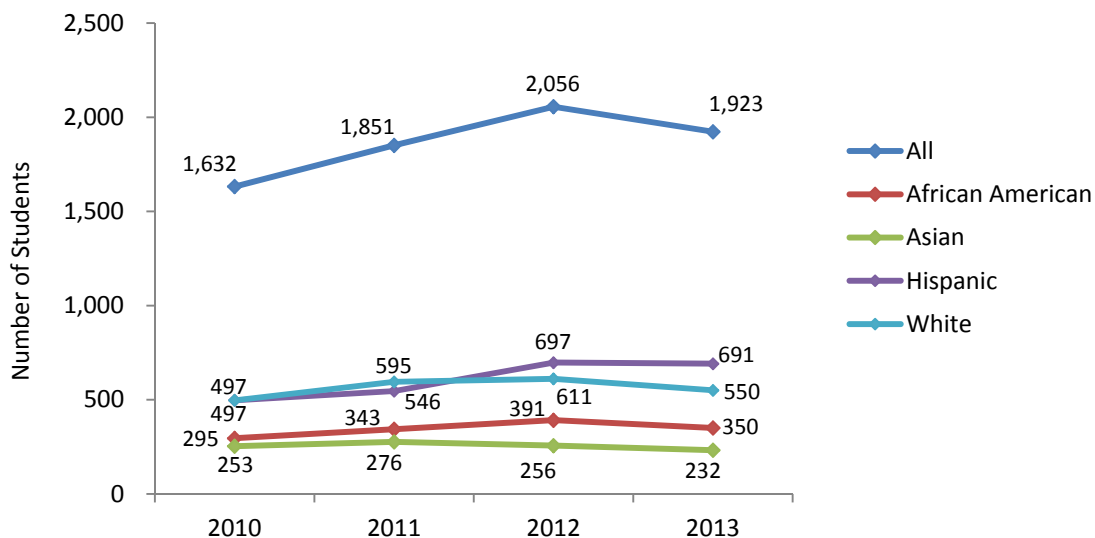


Figure 5 shows the number of HISD students who scored at or above 500 in SAT **Mathematics** for the classes of 2010 through 2013 by ethnicity.

- Among **All** Students, the number scoring 500 or better increased 35 percent since 2010.
- The number of **African American** students reaching the college-ready level has increased 43 percent since 2010, **Hispanic** students 74 percent, and **White** students 15 percent.

Figure 5. Number of HISD Students with SAT Mathematics Scores \geq 500 by Ethnicity
Classes of 2010-2013

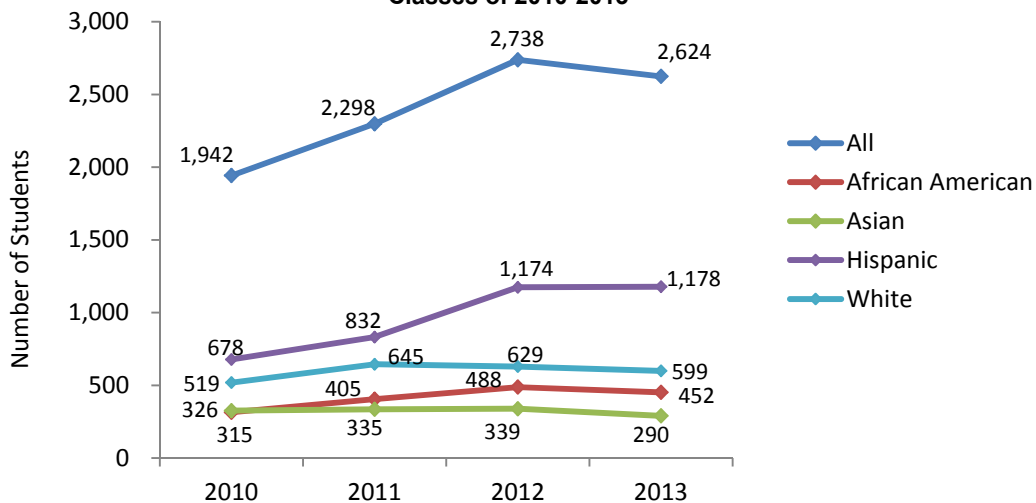


Figure 6 shows the number of HISD students who scored at or above 500 in SAT **Writing** for the classes of 2010 through 2013 by ethnicity.

- Among **All** students, the number scoring 500 or better has increased 7 percent since 2010.
- The number of **African American** students reaching the college-ready level has increased 12 percent since 2010, **Hispanic** students 21 percent, and **White** students 5 percent.

Figure 6. Number of HISD Students with SAT Writing Scores \geq 500 by Ethnicity
Classes of 2010-2013

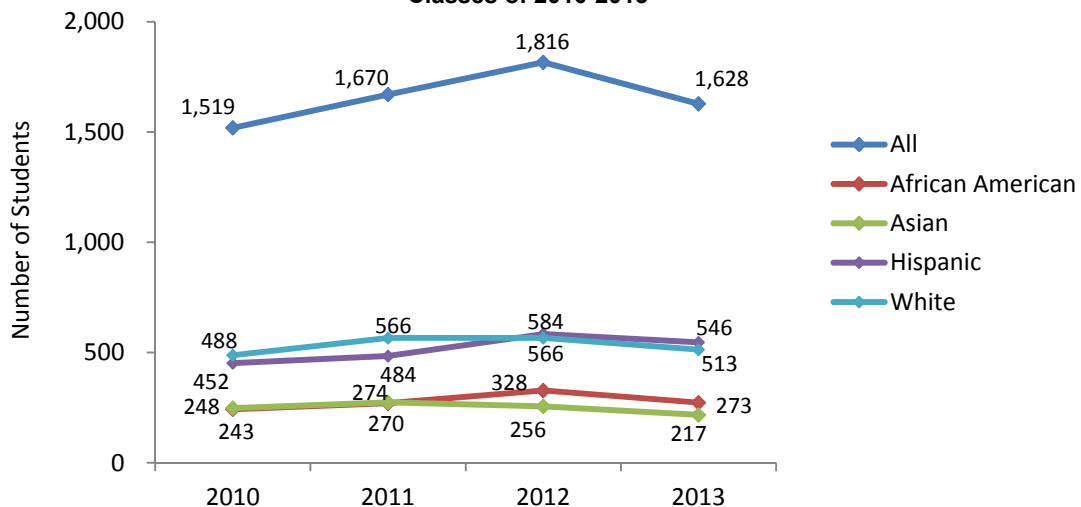
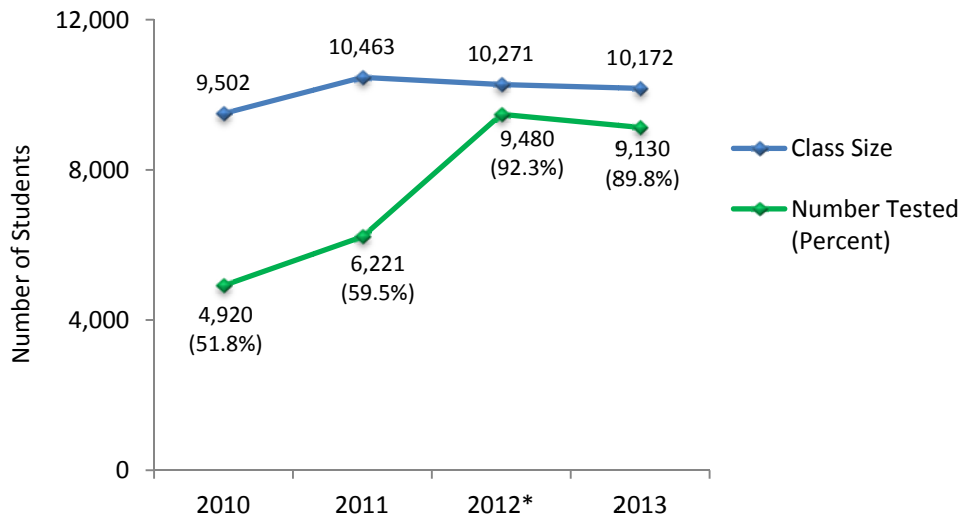


Figure 7 shows the class size and number of HISD students who took the SAT for the classes of 2010 through 2013.

- The percentage of seniors who took the SAT increased from 51.8% for the class of 2010 to 89.8% for the class of 2013. The SAT school day administration for juniors was included for the first time in the class of 2012 results.
- The percentage of seniors who took the SAT decreased from 92.3% for the class of 2012 to 89.8% for the class of 2013.

Figure 7. HISD Class Size and SAT Participation
Classes of 2010-2013



*First year of SAT School-Day results included in graduating class results.

Figure 8 shows the SAT participation rate of HISD students by **ethnicity**. The results indicate that the participation rates increased for all ethnic groups as follows:

- The **African American** students gained by 36.9 percentage points
- The **Hispanic** students gained by 35.3 percentage points
- The **White** students gained by 31.5 percentage points
- The **Asian** students gained by 22.2 percentage points

Figure 8. HISD SAT Participation Rate by Ethnicity
Classes of 2010-2013

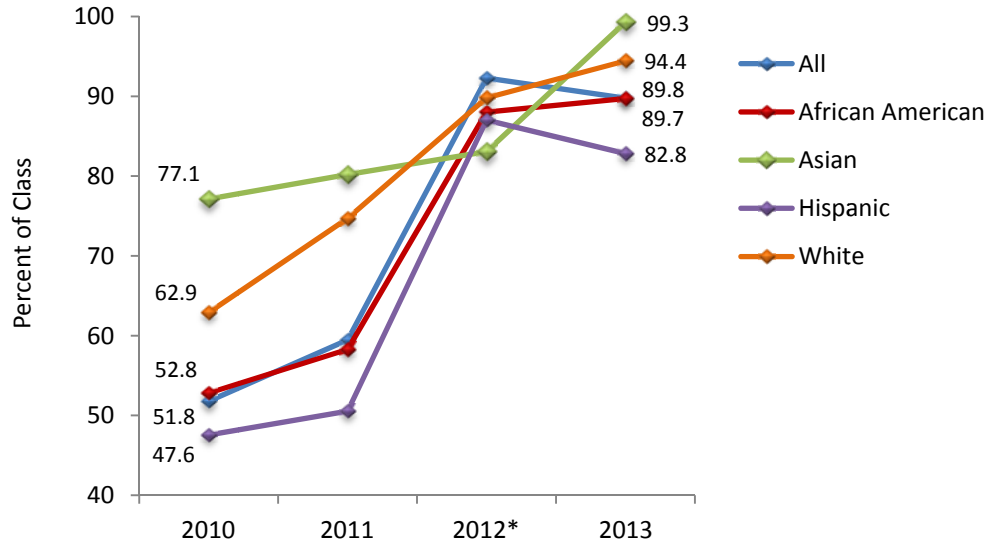


Figure 9 shows the number of students in the class of 2013 tested on SAT, and the SAT composite score (critical reading, mathematics, and writing) by **campus**. The results indicate:

- The median score of the 45 campuses with at least 5 testers is 1130, with a range of 894 at Hope Academy to a high of 1840 at DeBakey HS.
- The mean score for the district is 1252 compared to 1437 in the state, and 1498 nationally.

Figure 9. SAT Composite Scores by Campus: Class of 2013
Critical Reading + Mathematics + Writing

Campus	Tested N ≥ 5	SAT Composite Score
DeBakey HS	200	1840
Carnegie Vanguard	117	1839
HSPVA	153	1690
Bellaire HS	726	1534
Challenge HS	106	1518
East Early College	104	1457
Lamar HS	706	1432
N. Houston Early College	85	1429
Houston Acad. for Int'l Studies	85	1422
Westside HS	641	1392
Eastwood Acad.	105	1366
Empowerment	37	1357
HSLECJ	121	1288
Mt. Carmel Acad.	73	1276
Waltrip HS	245	1274
Reagan HS	394	1226
E-STEM SE	29	1224
Sharpstown Int'l	99	1209
Chavez HS	501	1194
E-STEM SW	30	1186
Jordan HS	245	1158
Washington HS	151	1150
Milby HS	383	1130
Scarborough HS	122	1124
Westbury HS	404	1120
Davis HS	291	1118
Sharpstown HS	283	1113
Furr HS	148	1101
Austin HS	356	1094
Vision Academy	5	1090
Madison HS	400	1083
Lee HS	327	1075
Worthing HS	139	1075
Yates HS	167	1069
New Aspirations	16	1066
CLC HS	7	1055
Houston MSTC	544	1055
Sterling HS	191	1047
Wheatley HS	145	1039
Kashmere HS	88	1023
Jones HS	89	1014
Liberty HS	21	1000
REACH	16	995
Beechnut	14	958
Hope Academy	20	894
HISD	9,130	1252
Texas	172,870	1437
Nation	1,660,047	1498

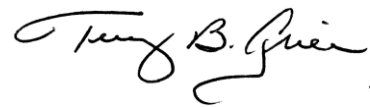
District, state, and national performance data by student groups for the class of 2013 and campus-level performance data for all campuses whose students took the SAT for 2012 and 2013 are presented in **Tables A1-3** in the **Appendix**.

On February 27, 2013, HISD administered the school-day SAT to all juniors who wished to participate. This was the third year for this school day assessment funded by the district for juniors. A total of 8,961 juniors were tested on the 2013 school day administration of the SAT, up from 8,515 juniors in 2012. Results by campus of the 2013 school-day SAT administration by campus are presented in **Table A4** in the **Appendix**. Comparisons between graduating class results including the school-day data and graduating classes prior to 2012 should be made with caution, as they represent different test-taking populations because the school-day test data include students who may not have originally planned to take the SAT.

Administrative Response

Although we see some small, relative improvements in Critical Reading and Mathematics, these are not nearly enough. In combination with the slide in Writing scores, there is clearly a need for some new thinking.

- We have contracted with the Andover Company for SAT prep materials. Almost all juniors and some seniors are being exposed to these materials as a regular part of their instruction, year-long.
- The re-energized focus on helping students prepare and feel more comfortable with the SAT is expected to also improve participation rates.
- The change of the SAT School-Day testing to April from February should also provide an opportunity to better prepare students.
- A number of schools were also piloting SAT labs, taking their cue from the success of the grad labs.
- There was an increase in the number of juniors tested in the 2013 SAT school-day test which should translate into increased numbers of students for the class of 2014 having test results.
- With a change to the STAAR graduation requirements and an increase in academic rigor, the expectations are that this should translate into improved performance for the class of 2015.



TBG

cc: Superintendent's Direct Reports
Dana Bost
Richard Cruz
High School Support Officers
High School Principals

Table A1. Class of 2013 Mean SAT Scores by Ethnicity: District, State, and Nation

Group	2013														
	HISD					Texas					Nation				
	N Tested	% Tested	Reading	Math	Writing	N Tested	% Tested	Reading	Math	Writing	N Tested	% Tested	Reading	Math	Writing
American Indian	34	<1	421	429	407	1,060	1	498	507	471	9,818	1	480	486	461
Asian	424	5	512	571	509	11,838	7	527	584	520	196,030	12	521	597	527
African American	2,463	27	388	408	381	24,013	14	423	436	408	210,151	13	431	429	418
Mexican, Mex. Amer.	2,382	26	402	437	393	31,504	18	444	472	432	114,506	7	449	464	442
Puerto Rican	25	<1	453	458	442	1,027	1	482	488	461	27,871	2	456	453	445
Other Hispanic, Latino	2,548	28	380	414	374	30,782	18	427	454	417	141,884	9	450	461	443
White	866	9	535	554	522	67,080	39	524	540	504	834,933	50	527	534	515
Other	196	2	458	458	439	3,100	2	500	507	482	62,251	4	492	519	490
No Response	192	2	361	391	344	2,466	1	465	475	444	62,603	4	448	508	453
Female	4,794	53	413	436	413	92,341	53	474	487	466	883,955	53	494	499	493
Male	4,336	47	407	444	390	80,529	47	479	512	456	776,092	47	499	531	482
Total	9,130	100	410	440	402	172,870	100	477	499	461	1,660,047	100	496	514	488

Table A2. Class of 2012 Mean SAT Scores by Ethnicity: District, State, and Nation

Group	2012														
	HISD					Texas					Nation				
	N Tested	% Tested	Reading	Math	Writing	N Tested	% Tested	Reading	Math	Writing	N Tested	% Tested	Reading	Math	Writing
American Indian	33	0	430	439	408	1,060	1	500	512	477	9,716	1	482	489	162
Asian	456	5	515	589	522	11,389	7	521	582	521	192,577	12	518	595	528
African American	2,654	28	387	406	385	24,431	14	421	436	409	217,656	13	428	428	417
Mexican, Mex. Amer.	2,432	26	399	436	393	30,977	18	441	471	431	108,238	7	448	465	443
Puerto Rican	31	0	438	460	423	1,020	1	481	492	464	27,793	2	452	452	442
Other Hispanic, Latino	2,600	27	379	412	377	29,549	17	424	453	418	136,602	8	447	461	442
White	890	9	543	557	534	68,681	40	522	540	502	852,144	51	527	536	515
Other	190	2	451	463	445	3,059	2	492	504	477	62,340	4	491	516	491
No Response	194	2	362	383	347	2,636	2	450	468	431	57,413	3	444	502	448
Female	4,834	51	411	430	415	92,420	53	472	485	467	886,337	53	493	499	494
Male	4,646	49	408	448	396	80,382	47	477	514	454	778,142	47	498	532	481
Total	9,480	100	410	439	406	172,802	100	474	499	461	1,664,479	100	496	514	488

Table A3. Classes of 2012 and 2013 SAT Mean Scores by Campus

Campus	N Taking		Reading		Mathematics		Writing		Total	
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
Adv. Virtual Acad.	7	1	297	*	331	*	301	*	929	*
Austin HS	346	356	342	351	388	394	338	349	1068	1094
Beechnut	17	14	387	323	412	336	374	299	1173	958
Bellaire HS	781	726	516	507	539	529	509	498	1564	1534
Carnegie Vanguard	88	117	626	615	636	633	621	591	1883	1839
Challenge HS	113	106	495	506	500	516	491	496	1486	1518
Chavez HS	527	501	375	386	419	425	373	383	1167	1194
CLC HS	30	7	315	319	345	386	312	350	972	1055
Davis HS	242	291	371	357	413	407	378	354	1162	1118
DeBakey HS	197	200	592	596	643	646	609	598	1844	1840
East Early College	104	104	460	473	503	518	460	466	1423	1457
Eastwood Acad.	94	105	440	446	482	482	453	438	1375	1366
Energ. STEM-SE	63	29	425	410	483	426	431	388	1339	1224
Energ. STEM-SW	-	30	-	381	-	430	-	375	-	1186
Empowerment	-	37	-	447	-	478	-	432	-	1357
Furr High School	119	148	385	357	406	389	382	355	1173	1101
Hope Academy	37	20	315	291	329	309	329	294	973	894
Houston Acad. Int'l	89	85	457	477	471	481	457	464	1385	1422
Houston M/S/T	536	544	341	340	376	378	347	337	1064	1055
HSLECJ	131	121	428	424	441	442	439	422	1308	1288
HSPVA	165	153	559	571	552	561	553	558	1664	1690
Jones HS	116	89	339	333	362	353	342	328	1043	1014
Jordan HS	240	245	365	372	395	413	367	373	1127	1158
Kashmere HS	98	88	339	327	366	363	344	333	1049	1023
Lamar HS	608	706	487	477	505	493	482	462	1474	1432
Lee HS	351	327	356	347	402	391	355	337	1113	1075
Liberty HS	9	21	362	323	392	350	388	327	1142	1000
Madison HS	410	400	361	354	391	382	357	347	1109	1083
Milby HS	465	383	372	377	399	394	358	359	1129	1130
Mt. Carmel Acad.	79	73	416	423	421	435	403	418	1240	1276
New Aspirations	45	16	368	362	356	368	346	336	1070	1066
N. Houst. Early Coll	82	85	454	466	498	507	458	456	1410	1429
REACH Charter	49	16	284	327	301	346	286	322	871	995
Reagan HS	400	394	389	397	422	437	377	392	1188	1226
Scarborough HS	126	122	390	362	422	400	377	362	1189	1124
Sharpstown HS	290	283	352	359	396	407	340	347	1088	1113
Sharpstown Int'l.	79	99	399	389	461	429	405	391	1265	1209
Sterling HS	173	191	356	340	382	375	351	332	1089	1047
Waltrip HS	338	245	427	422	449	447	412	405	1288	1274
Washington HS	171	151	391	381	415	402	388	367	1194	1150
Westbury HS	466	404	371	373	400	389	359	358	1130	1120
Westside HS	702	641	461	458	487	488	452	446	1400	1392
Wheatley HS	157	145	335	333	370	374	334	332	1039	1039
Worthing HS	156	139	354	357	372	368	351	350	1077	1075
Yates HS	191	167	351	356	369	366	357	347	1077	1069
HISD	9,480	9,130	410	410	439	440	406	402	1255	1253
Texas	172,802	172,870	474	477	499	499	461	461	1422	1437
Nation	1,664,479	1,660,047	496	496	514	514	488	488	1498	1498

Table A4. Average School Day SAT Scores for Juniors by Campus, 2012 & 2013

Campus	2012					2013				
	# Tested	Reading	Math	Writing	Composite	# Tested	Reading	Math	Writing	Composite
Adv. Virtual Acad.	7	297	331	301	929	0				
Austin HS	331	345	391	345	1081	301	344	395	360	1099
Beechnut Academy	17	328	341	323	992	22	314	380	314	1008
Bellaire HS	643	495	520	489	1504	626	483	514	481	1478
Carnegie Vanguard	118	601	632	574	1807	105	618	652	611	1881
Challenge HS	103	489	511	487	1487	106	495	525	493	1513
Chavez HS	416	384	431	386	1201	497	374	421	383	1178
CLC	6	340	392	345	1077	0				
Davis HS	278	352	399	350	1101	276	344	391	354	1090
DeBakey HS	198	574	640	579	1793	176	582	649	598	1829
East Early College	104	471	507	458	1436	111	467	517	476	1460
Eastwood	97	435	471	431	1337	91	447	489	445	1380
Empowerment	40	423	477	424	1324	9	423	543	428	1394
E-STEM Central	26	400	451	391	1242	10	404	428	398	1230
E-STEM West	26	378	440	377	1195	42	327	403	360	1091
Furr HS	149	345	380	349	1074	139	342	381	357	1080
Hope Academy	19	288	308	293	889	11	292	318	275	885
Houston Acad. Int'l	85	466	477	464	1407	97	445	473	437	1355
Houston M/S/T	532	331	375	329	1035	534	327	385	350	1062
HSLECJ	119	417	447	422	1286	123	430	457	442	1328
HSPVA	145	560	557	546	1663	160	568	569	558	1695
JJAEP	1	*	*	*	*	0				
Jones HS	82	322	353	325	1000	88	307	348	321	976
Jordan HS	238	364	414	369	1147	220	349	389	360	1098
Kashmere HS	83	319	363	335	1017	78	304	341	314	959
Lamar HS	674	464	485	453	1402	810	469	489	461	1419
Lee HS	304	340	387	328	1055	294	327	365	344	1036
Madison HS	386	344	379	341	1064	395	332	364	350	1046
Milby HS	360	370	390	350	1110	420	347	382	354	1083
Mount Carmel	69	414	424	414	1252	94	415	432	421	1267
New Aspirations	17	362	367	322	1051	0				
N. Houst. Early Coll.	84	455	502	449	1406	90	449	496	455	1400
REACH Charter	12	321	348	314	983	10	291	292	333	916
Reagan HS	367	387	431	384	1202	418	401	437	403	1240
Scarborough HS	117	360	404	367	1131	109	341	374	340	1055
Sharpstown HS	263	359	408	386	1153	218	335	392	341	1068
Sharpstown Int'l	98	372	423	386	1181	110	378	415	395	1187
Sterling HS	181	335	380	331	1046	169	327	366	358	1051
Vision Academy	1	*	*	*	*	13	329	355	335	1020
Waltrip HS	197	417	448	399	1264	391	391	426	382	1198
Washington HS	133	370	400	365	1135	130	357	417	366	1140
Westbury HS	390	366	384	352	1102	413	346	357	353	1056
Westside HS	612	449	483	440	1372	636	445	468	439	1352
Wheatley HS	127	329	375	335	1039	138	318	337	341	996
Worthing HS	109	341	371	347	1059	108	321	342	328	991
Yates HS	151	348	366	344	1058	173	348	364	358	1070
HISD	8,515	402	437	396	1235	8,961	396	431	402	1228

Note. SAT composite scores that increased from 2012 to 2013 are shaded green.