

MEMORANDUM

October 3, 2012

TO: Board Members

FROM: Terry B. Grier, Ed.D.
Superintendent of Schools

SUBJECT: **SAT RESULTS: CLASS OF 2012**

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

The results from the SAT have been released by the College Board. The SAT is a college admissions exam that assesses student reasoning based on knowledge and skills developed by the students in their course work. Colleges use SAT scores to make admission decisions, recruit students, place students in appropriate courses, and predict student performance at the college-level. The results of the SAT are provided below for the class of 2012.

The number of Houston Independent School District (HISD) graduating seniors in 2012 with SAT results was 9,480, an increase of 3,259 students taking the test over the 6,221 students in 2011. The number of HISD graduating seniors with SAT results has nearly doubled (93 percent increase), since 2010, when nearly half of seniors did not sit for the exam. In 2012, more than 90 percent of seniors were tested. **Table 1** provides a comparison of HISD students with Texas and national students for the graduating class of 2012 compared to 2011. **This year’s results reflect the first year of the district’s SAT School Day testing of all juniors in 2010-2011.**

Table 1: Average SAT Scores of HISD Students with Texas and National Students, Graduating Classes of 2011 and 2012

	<u>Critical Reading</u>		<u>Mathematics</u>		<u>Writing</u>	
	<u>2011</u>	<u>2012</u>	<u>2011</u>	<u>2012</u>	<u>2011</u>	<u>2012</u>
HISD	445	410	470	439	440	406
Texas	479	474	502	499	465	461
National	497	496	514	514	489	488

HISD, Texas, and Nation

College Board research shows that average SAT scores tend to decline as the testing pool increases. This is particularly true when access to the exam is expanded for minority students, first-generation immigrants, and those from low-income households. Nearly doubling the size of the SAT testing pool among HISD students has resulted in a predictable decline in average scores. However, the overall number of students scoring at college-ready levels (500 or higher) has increased significantly in each of the three SAT subject areas, which means more HISD graduates are prepared in those subject areas than before.

If we eliminate the bottom 3,255 scores in 2012, which is close to the difference in the number of students tested from 2011 to 2012, average scores in each subject would increase substantially. The average composite score for the top 6,225 students tested in 2012 is 1424, compared to 1355 for the 6,221 students in the Class of 2011 who took the SAT. While this is

not a statistically valid comparison to make, it does offer some valuable insight into the impact that increasing the testing pool has on average scores.

- The average critical reading SAT score for HISD decreased by 35 points, the average mathematics score decreased by 31 points, and the average writing score decreased by 34 points from 2011 to 2012. During the same time period, mean scores for Texas decreased by 5 points in reading, 3 points in mathematics, and 4 points in writing. For the nation, scores declined for the class of 2012 as compared with the class of 2011 by 1 point in both reading and writing and remained the same in mathematics.
- Performance gaps between the district and the state and nation increased for the class of 2012 as compared with the class of 2011. The largest gap increases between HISD and Texas were in critical reading and writing where the performance gap increased by 30 points, from a 34-point gap in 2011 to a 64-point gap in 2012 in reading and a 25-point gap in 2011 to a 55-point gap in 2012 in writing. The largest gap increase between HISD and the nation was in reading where the performance gap increased by 34 points, from a 52-point gap in 2011 to an 86-point gap in 2012.

Table 2 provides the district-level scores by ethnicity and gender for the graduating classes of 2011 and 2012.

Group	2011				2012			
	N Tested	Read	Math	Writing	N Tested	Read	Math	Writing
American Indian	14	509	501	454	33	430	439	408
Asian American	421	544	611	553	456	515	589	522
African American	1,913	412	423	405	2,654	387	406	385
Hispanic	2,884	418	450	414	5,063	389	424	385
White	806	559	575	550	890	543	557	534
Other	117	494	490	486	190	451	463	445
No Response	66	454	459	428	194	362	383	347
Female	3,440	441	458	444	4,834	411	431	415
Male	2,781	450	485	434	4,646	408	448	396
Total	6,221	445	470	440	9,480	410	439	406

- There was an increase in the number of students tested from 2011 to 2012 for students in all student subgroups. For the class of 2012, 35 more Asian American seniors took the SAT than in the class of 2011, 84 more White students took the SAT than in the class of 2011, 741 more African American seniors took the SAT than in the class of 2011, and 2,179 more Hispanic seniors were tested than in the class of 2011.
- The average mean scores for students in all ethnic groups declined for the class of 2012 as compared with the class of 2011.

5-Year Trend Data

Figure 1 shows the number of students tested on the SAT by student group and for all students for the classes of 2008 through 2012. **Figure 2** shows total mean SAT scores for HISD seniors for the total group as well as by ethnicity for the classes of 2008 through 2012.

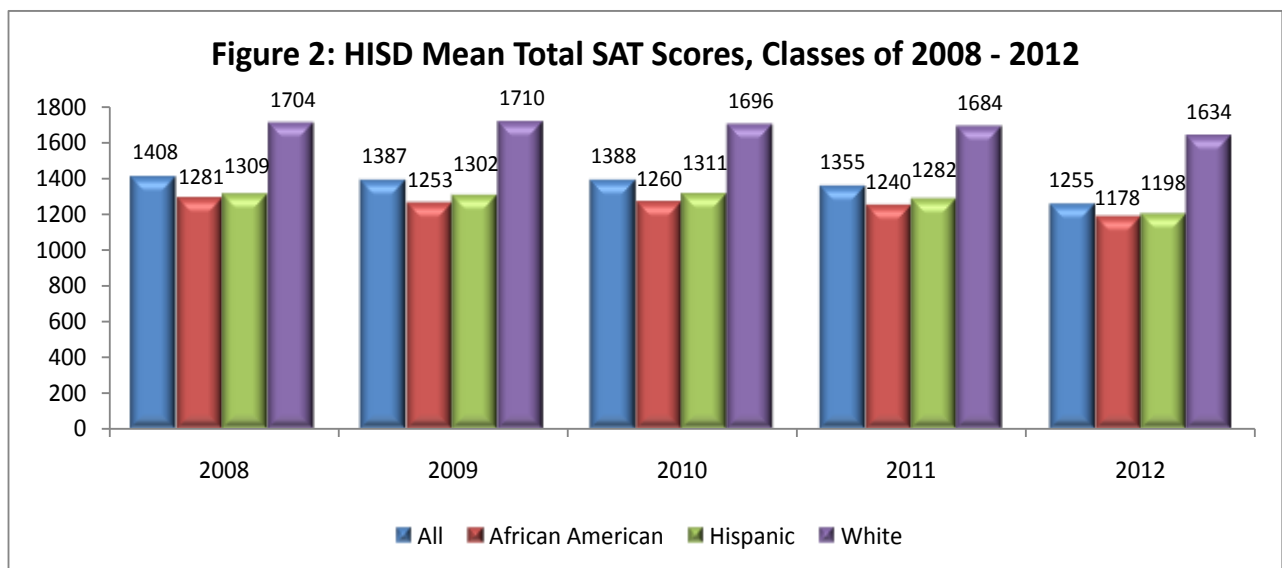
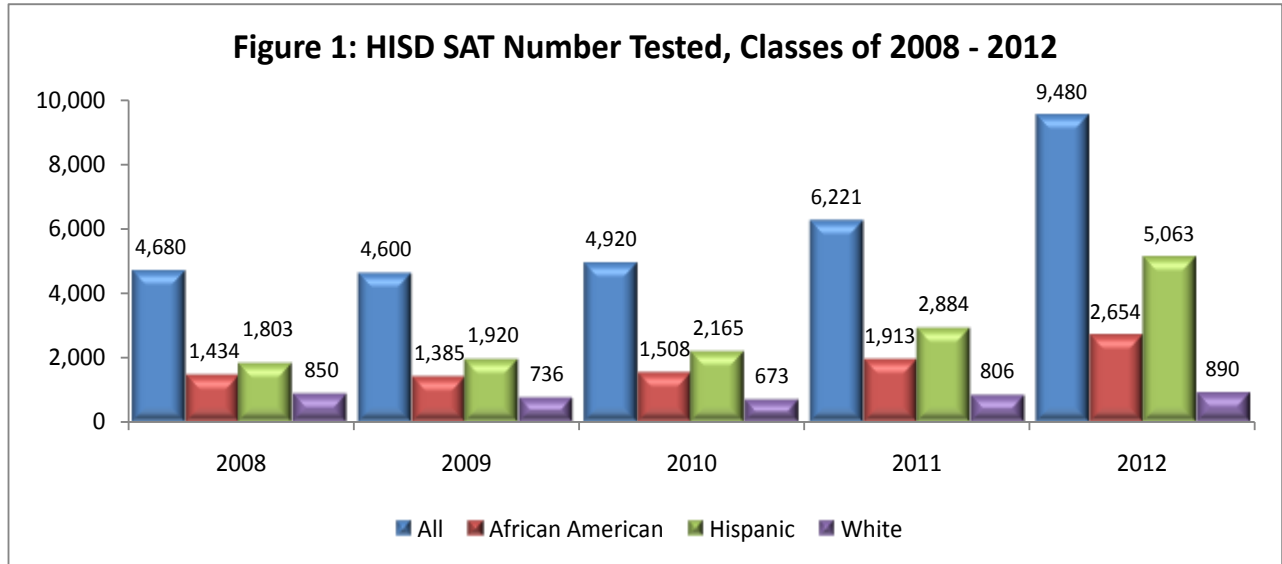
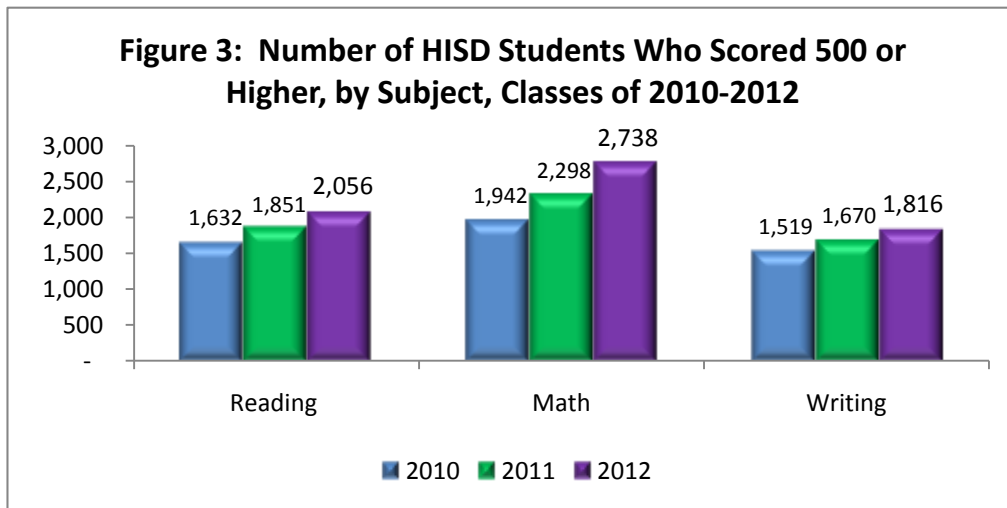


Figure 3 shows the number of HISD students who scored at or above 500 on any subject of the SAT for the classes of 2010, 2011, and 2012.



- When looking at the class of 2012 compared to the class of 2010, 424 more students scored at least 500 in critical reading (26 percent increase), 796 more students scored 500 or higher in math (41 percent increase), and 297 more students scored 500 or higher in writing (20 percent increase).

Figures 4-6 show the number of HISD students who scored at or above 500 on any subject of the SAT for the classes of 2010, 2011, and 2012, by ethnicity.

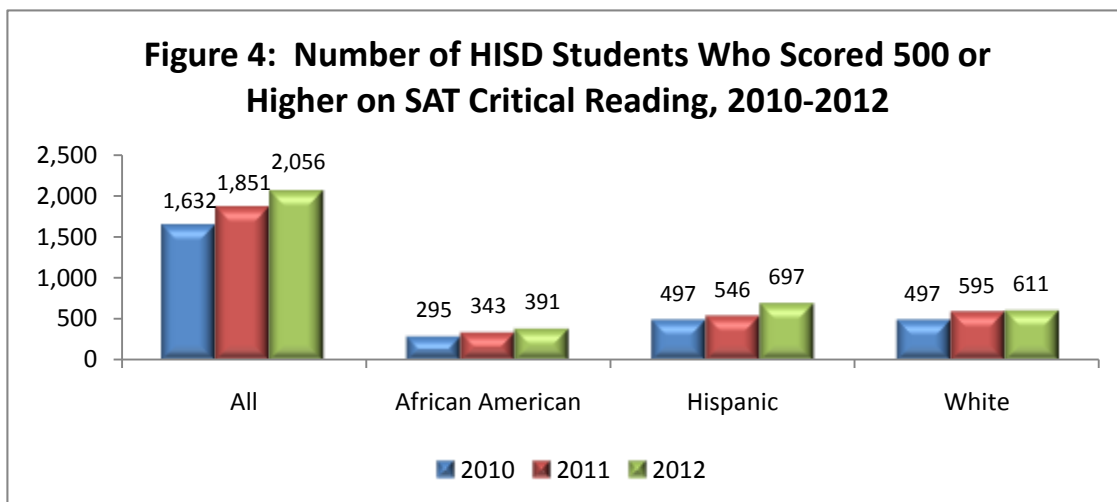


Figure 5: Number of HISD Students Who Scored 500 or Higher on SAT Math, 2010-2012

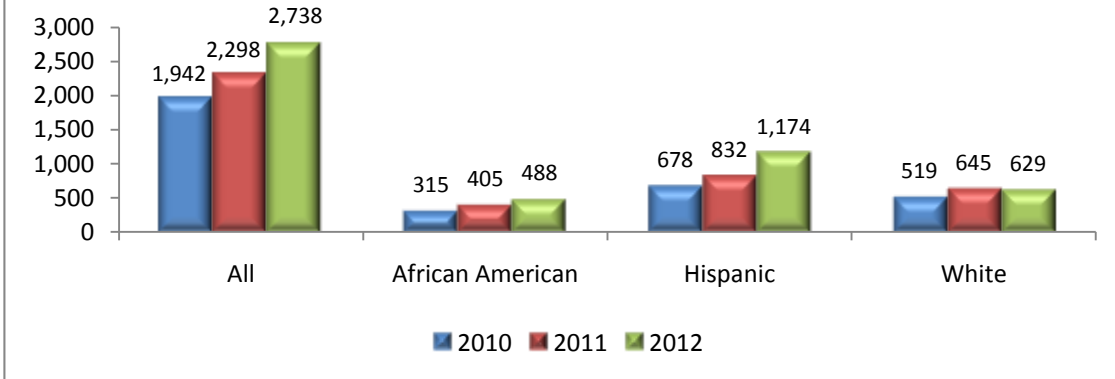
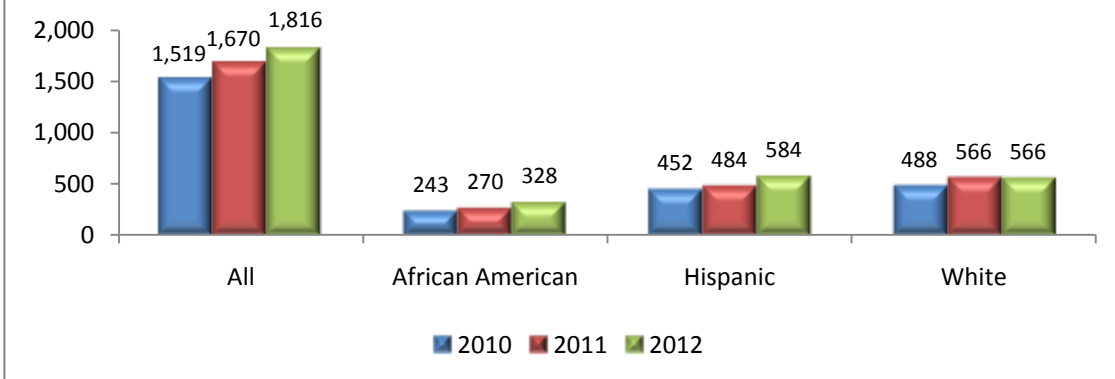
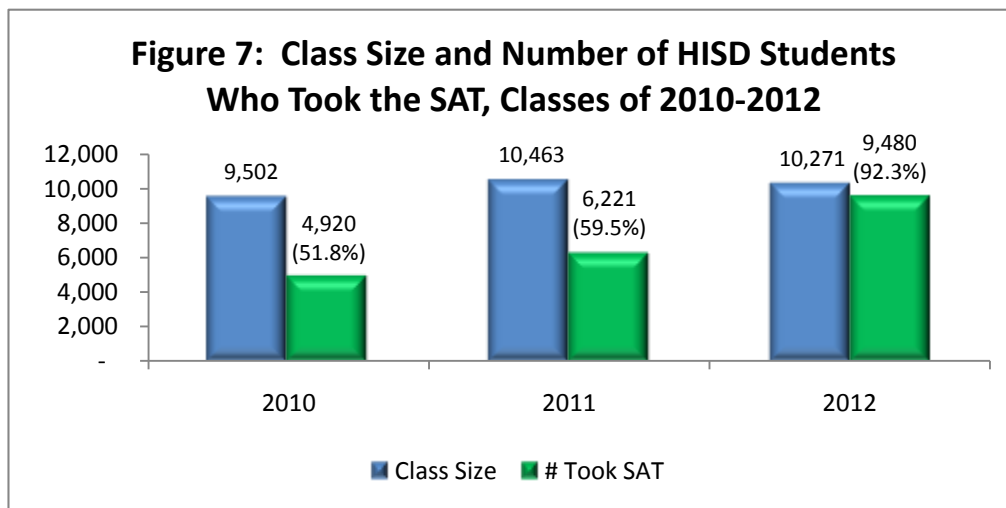


Figure 6: Number of HISD Students Who Scored 500 or Higher on SAT Writing, 2010-2012



- The number of students in all ethnic groups scoring at the college-ready level has increased since 2010 for each subject.
 - Among **African American** students, the number scoring 500 or better has increased 33 percent in reading, 55 percent in math, and 35 percent in writing.
 - The number of **Hispanic** students reaching the college-ready level has increased 40 percent in reading, 73 percent in math, and 29 percent in writing.
 - Among **white** students, the number reaching the college-ready mark has climbed 23 percent in reading, 21 percent in math, and 16 percent in writing.
 - The number of **Asian American** students achieving the college-ready mark is up 1 percent in reading, 4 percent in math, and 3 percent in writing.

Figure 7 shows the class size and number of HISD students who took the SAT for the classes of 2010, 2011, and 2012.



- The percentage of seniors who took the SAT increased from 51.8% for the class of 2010 to 92.3% for the class of 2012.

Attached are a table with district, state, and national performance data by student groups for the class of 2012 and a table with campus level performance data for all campuses whose students tested on the SAT for 2011 and 2012.

On March 20, 2012, HISD administered the SAT on all high school campuses during the school day, free of charge, to all juniors. A total of 8,515 juniors were tested, with a mean total SAT score of 1235. Results by campus of the 2012 school day SAT administration are presented in an attached table. Comparisons between the school day administration data and other SAT data should be made with caution, as they represent different test-taking populations and the school day test data include students who traditionally may not have planned on taking the SAT. These results will be included with the SAT results for the graduating class of 2013.

A complete report will be released later in the fall. This report will include an analysis of SAT, ACT, PSAT, and advanced placement results.

TBG

cc: Superintendent's Direct Reports
Estibaliz Arriaga
High School Principals

Classes of 2011 – 2012 SAT Performance by Student Group

Classes of 2011 – 2012 Mean SAT Scores by Ethnicity: District, State, and Nation

Group	2012														
	<u>HISD</u>					<u>Texas</u>					<u>Nation</u>				
	N Tested	% Tested	Read	Math	Writing	N Tested	% Tested	Read	Math	Writing	N Tested	% Tested	Read	Math	Writing
American Indian	33	0	430	439	408	1,060	1	500	512	477	9,716	1	482	489	162
Asian American	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

Group	2011														
	<u>HISD</u>					<u>Texas</u>					<u>Nation</u>				
	N Tested	% Tested	Read	Math	Writing	N Tested	% Tested	Read	Math	Writing	N Tested	% Tested	Read	Math	Writing
American Indian	14	0	509	501	454	1,059	1	500	509	474	9,244	1	484	488	465
Asian American	421	7	544	611	553	10,990	7	522	583	521	183,853	11	517	595	528
African American	1,913	31	412	423	405	23,389	14	423	438	412	215,816	13	428	427	417
Mexican, Mex. Amer.	1,353	22	430	463	425	28,555	17	446	474	435	99,166	6	451	466	445
Puerto Rican	20	0	432	457	439	917	1	478	493	463	26,520	2	452	452	442
Other Hispanic, Latino	1,511	24	408	438	403	26,184	16	430	457	422	127,017	8	451	462	444
White	806	13	559	575	550	69,400	42	522	540	504	865,660	53	528	535	516
Other	117	2	494	490	486	2,791	2	500	511	485	58,699	4	493	517	492
No Response	66	1	454	459	428	2,727	2	454	467	435	61,148	4	448	496	450
Female	3,440	55	441	458	444	88,503	53	476	489	472	876,518	53	495	500	496
Male	2,781	45	450	485	434	77,509	47	482	516	458	770,605	47	500	531	482
Total	6,221	100	445	470	440	166,012	100	479	502	465	1,647,123	100	497	514	489

Classes of 2011 and 2012 SAT Mean Scores by Campus

Campus	N Taking		Reading		Mathematics		Writing		Total	
	2011	2012	11	12	11	12	11	12	11	12
Austin HS	190	346	373	342	421	388	372	338	1166	1068
Beechnut	-	17	-	387	-	412	-	374	-	1173
Bellaire HS	600	781	548	516	583	539	551	509	1682	1564
Carnegie Vanguard	80	88	613	626	624	636	612	621	1849	1883
Challenge HS	97	113	501	495	501	500	491	491	1493	1486
Chavez HS	341	527	400	375	432	419	388	373	1220	1167
CLC HS	23	30	311	315	333	345	308	312	952	972
Davis HS	169	242	393	371	427	413	384	378	1204	1162
DeBakey HS	220	197	574	592	645	643	589	609	1808	1844
East Early College	98	104	458	460	494	503	469	460	1421	1423
Eastwood Acad.	63	94	461	440	517	482	463	453	1441	1375
Energ. STEM-SE	-	63	-	425	-	483	-	431	-	1339
Empowerment	11	-	393	-	389	-	378	-	1160	-
Furr High School	95	119	379	385	404	406	383	382	1166	1173
Hope Academy	10	37	362	315	324	329	332	329	1018	973
Houston Acad. Int'l	68	89	445	457	455	471	432	457	1332	1385
Houston M/S/T	207	536	388	341	435	376	391	347	1214	1064
HSLECJ	101	131	444	428	447	441	447	439	1338	1308
HSPVA	142	165	556	559	562	552	558	553	1676	1664
Jones HS	73	116	368	339	383	362	348	342	1099	1043
Jordan HS	148	240	397	365	412	395	396	367	1205	1127
Kashmere HS	31	98	374	339	367	366	378	344	1119	1049
Lamar HS	584	608	508	487	514	505	493	482	1515	1474
Leaders' Academy	14	-	359	-	361	-	356	-	1076	-
Lee HS	252	351	379	356	412	402	374	355	1165	1113
Liberty HS	-	9	-	362	-	392	-	388	-	1142
Madison HS	228	410	393	361	400	391	380	357	1173	1109
Milby HS	316	465	385	372	412	399	380	358	1177	1129
Mt. Carmel Acad.	43	79	446	416	462	421	453	403	1361	1240
New Aspirations	5	45	420	368	398	356	396	346	1214	1070
N. Houst. Early Coll	-	82	-	454	-	498	-	458	-	1410
REACH Charter	-	49	-	284	-	301	-	286	-	871
Reagan HS	176	400	421	389	457	422	410	377	1288	1188
Scarborough HS	73	126	398	390	442	422	398	377	1238	1189
Sharpstown HS	164	290	374	352	420	396	380	340	1174	1088
Sharpstown Int'l.	36	79	404	399	444	461	411	405	1259	1265
Sterling HS	112	173	388	356	400	382	388	351	1176	1089
Waltrip HS	206	338	448	427	466	449	429	412	1343	1288
Washington HS	101	171	442	391	453	415	420	388	1315	1194
Westbury HS	216	466	408	371	430	400	400	359	1238	1130
Westside HS	528	702	486	461	507	487	472	452	1465	1400
Wheatley HS	91	157	354	335	374	370	349	334	1077	1039
Worthing HS	156	156	375	354	389	372	380	351	1144	1077
Yates HS	149	191	397	351	402	369	381	357	1180	1077
HISD	6,221	9,480	445	410	470	439	440	406	1355	1255
Texas	166,012	172,802	479	474	502	499	465	461	1446	1434
Nation	1,647,123	1,664,479	497	496	514	514	489	488	1500	1498

Average School Day SAT Scores by Campus, 2011 & 2012 (Juniors)

Average School Day SAT Scores by Campus, 2011 & 2012 Juniors										
School	# Tested	Read	2011			# Tested	Read	2012		
			Math	Writing	Total			Math	Writing	Total
Adv. Virtual Acad.	0	*	*	*	*	7	297	331	301	929
Austin HS	346	336	380	332	1048	331	345	391	345	1081
Bellaire HS	490	488	520	482	1490	643	495	520	489	1504
Carnegie Vanguard	85	628	634	622	1884	118	601	632	574	1807
CEP - SE	7	304	376	329	1009	0	*	*	*	*
CEP - SW	12	409	423	396	1228	17	328	341	323	992
Challenge HS	66	473	490	483	1446	103	489	511	487	1487
Chavez HS	477	374	425	374	1173	416	384	431	386	1201
CLC	35	318	353	314	985	6	340	392	345	1077
Davis HS	210	383	432	387	1202	278	352	399	350	1101
Debakey HS	187	580	643	593	1816	198	574	640	579	1793
East Early College	0	*	*	*	*	104	471	507	458	1436
Eastwood	91	443	483	452	1378	97	435	471	431	1337
Empowerment	0	*	*	*	*	40	423	477	424	1324
E-STEM Central	56	429	493	439	1361	26	400	451	391	1242
E-STEM West	0	*	*	*	*	26	378	440	377	1195
Furr HS	84	366	402	368	1136	149	345	380	349	1074
Hope Acad.	32	305	323	315	943	19	288	308	293	889
Houston Acad. Int'l	84	453	477	453	1383	85	466	477	464	1407
Houston M/S/T	534	336	374	345	1055	532	331	375	329	1035
HSLECJ	127	427	442	440	1309	119	417	447	422	1286
HSPVA	143	549	542	544	1635	145	560	557	546	1663
JJAEP	0	*	*	*	*	1	*	*	*	*
Jones HS	111	319	352	338	1009	82	322	353	325	1000
Jordan HS	236	358	402	364	1124	238	364	414	369	1147
Kashmere HS	98	332	368	341	1041	83	319	363	335	1017
Lamar HS	555	473	494	463	1430	674	464	485	453	1402
Leader's Acad.	42	286	307	290	883	0	*	*	*	*
Lee HS	284	358	398	359	1115	304	340	387	328	1055
Madison HS	385	357	395	355	1107	386	344	379	341	1064
Milby HS	442	370	402	356	1128	360	370	390	350	1110
Mt. Carmel	76	405	431	401	1237	69	414	424	414	1252
New Aspirations	42	367	350	347	1064	17	362	367	322	1051
N. Houst. Early Coll.	69	447	498	463	1408	84	455	502	449	1406
REACH Charter	47	283	299	277	859	12	321	348	314	983
Reagan HS	384	381	420	370	1171	367	387	431	384	1202
Scarborough HS	108	389	430	383	1202	117	360	404	367	1131
Sharpstown HS	276	350	397	336	1083	263	359	408	386	1153
Sharpstown Int'l	79	391	462	398	1251	98	372	423	386	1181
Sterling HS	169	350	379	350	1079	181	335	380	331	1046
Vision Academy	0	*	*	*	*	1	*	*	*	*
Waltrip HS	328	428	450	410	1288	197	417	448	399	1264
Washington HS	162	383	423	391	1197	133	370	400	365	1135
Westbury HS	447	365	398	351	1114	390	366	384	352	1102
Westside HS	641	451	480	447	1378	612	449	483	440	1372
Wheatley HS	135	329	377	330	1036	127	329	375	335	1039
Worthing HS	145	348	373	347	1068	109	341	371	347	1059
Yates HS	188	336	369	346	1051	151	348	366	344	1058
HISD	8,515	398	433	395	1226	8,515	402	437	396	1235