

MEMORANDUM

January 13, 2017

TO: Board Members

FROM: Richard A. Carranza
Superintendent of Schools

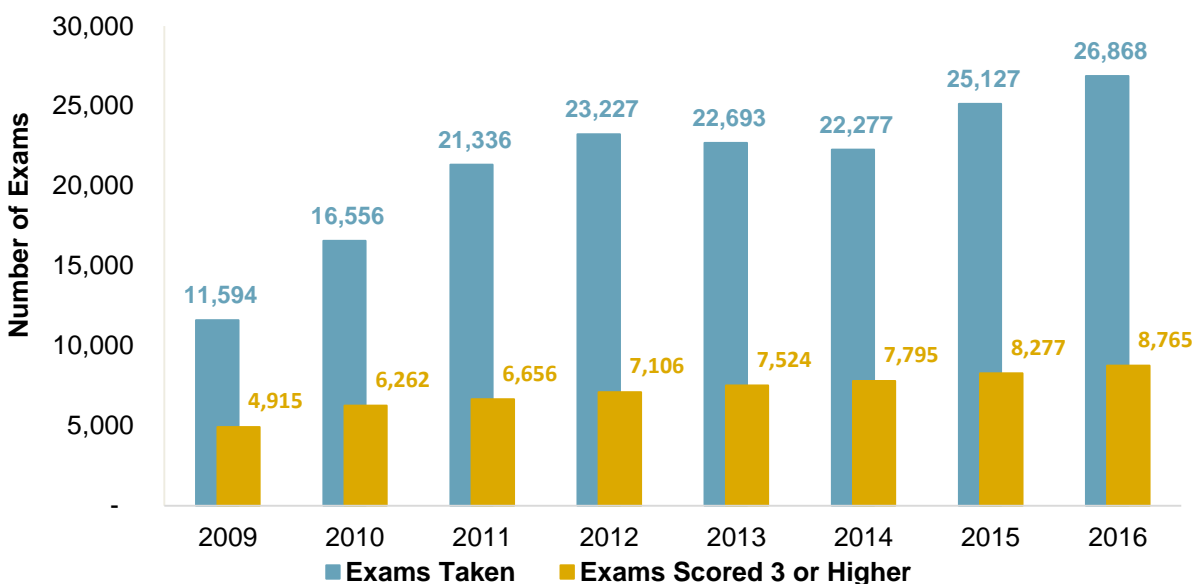
SUBJECT: **2016 ADVANCED PLACEMENT (AP) RESULTS**

CONTACT: Carla Stevens, 713-556-6700

The results from the Advanced Placement (AP) examinations have been released by the College Board. The Advanced Placement Program provides high school students with the opportunity to take college-level courses and earn college credit. There are a total of 36 AP exams offered in 6 subject categories. HISD schools administered all 36 AP exams in 2016. The AP grade scale ranges from 1 to 5, and a score of 3 or higher qualifies a student to earn advanced placement, college credit, or both.

The number of HISD students participating in AP exams at the high school level in 2016 was 14,416, an increase of 487 students from the 13,929 students who took AP exams in 2015. The total number of exams taken by HISD high school students in 2016 was 26,868, a seven percent **increase** (or 1,741 exams) from 25,127 exams in 2015. The percentage of these exams scored at a 3 or higher in 2016 **remained constant** at 33 percent when compared to 2015. **Figure 1** presents the eight-year trend for the number of AP exams taken by HISD high school students and the number scored 3 or higher.

Figure 1. AP Exams Taken and Number Scored 3+, 9th–12th grade, 2009–2016



Source: 2016 College Board AP data file, retrieved October 5, 2016; HISD Research and Accountability Department, Advanced Placement Report, 2014–2015 and 2013–2014.

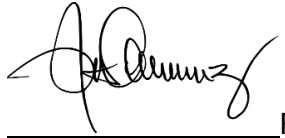
Notes: This graph displays a duplicated count of exams taken by students enrolled in grades 9–12.

Administrative Response

The Advanced Academics Department will implement the following actions to support campuses and increase equity of, and access to Advanced Placement programming:

- 1) Continue to provide district-level supports for Advanced Placement teacher development and student achievement via AP Professional Learning Communities in the following subjects: AP English Language and Composition, AP English Literature and Composition, AP Calculus AB, AP Biology, AP United States Government and Politics, AP Macroeconomics, AP World History, AP United States History, AP Statistics, AP Human Geography, and AP Capstone.
- 2) Support campuses with AP Potential data that allows them to identify historically underserved students who would otherwise be overlooked to participate in AP courses and also those courses that individual campuses should consider offering.
- 3) Provide all AP and Pre-AP teachers with access to a College Board approved AP or Pre-AP Summer Institute for targeted courses.
- 4) Refine district-level curricular resources for all supported courses and add new resources for AP World Language courses including Chinese, Spanish, and French.
- 5) Support the 57% increase of eligible HISD high schools participating in the two-year AP Capstone program.
- 6) Promote opportunities for all AP teachers to become AP Readers (College Board AP examination scorers).
- 7) Enhance district-wide digital spaces to allow AP teachers to exchange resources and have ongoing discussions revolving around content and pedagogy.
- 8) Collaborate with Schools Offices to provide opportunities for campus-specific differentiated supports.
- 9) Partner with the National Math and Science Initiative (NMSI) to provide comprehensive mentoring opportunities and campus-based supports at targeted campuses for NMSI-supported subjects.
- 10) Promote opportunities for teachers to gain computer science certification, to increase capacity of HISD schools to scale advanced placement computer science course work across the district.
- 11) Increase participation and performance across AP Arts assessments by leveraging Houston's Arts Access Initiative and its partnerships with expert arts and cultural institutions.

Should you have further questions, please contact Carla Stevens in Research and Accountability at 713-556-6700.


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Attachment

cc: Superintendent's Direct Reports
Chief School Officers
School Support Officers
Lance Menster
Annie Wolf

Sowmya Kumar
Gracie Guerrero
Rick Cruz
Adam Stephens

HOUSTON INDEPENDENT SCHOOL DISTRICT



RESEARCH

Educational Program Report

ADVANCED PLACEMENT (AP) REPORT
2015-2016



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ADVANCED PLACEMENT 2015–2016

Executive Summary

The Advanced Placement (AP) program represents a critical element in HISD's efforts to inject rigor into the high school classrooms. Since 2009, the AP course offerings in HISD have been vastly expanded, with more campuses offering a wider selection of AP courses that exposes a larger percentage of the high school population to academic rigor. Significantly more HISD students are taking and completing AP courses, taking and passing AP Exams, and earning AP Awards now than before 2009.

Highlights of AP in 2015–2016

- The number of high school students taking at least one AP Exam **increased** by 3 percent to 14,416 in 2015–16 from 13,929 in 2014–15.
- The number of AP Exams taken by high school students **increased** by 7 percent to 26,868 in 2015–16 from 25,127 in 2014–15.
- The number of AP Exams scored 3 or higher **increased** by 6 percent to 8,765 in 2015–16 from 8,277 in 2014–15; however the proportion of exams scored 3 or higher **remained constant** at 33 percent in both 2014–2015 and 2015–16.
- History and Social Sciences represented the largest category among the six AP categories with 47 percent of all AP Exams taken by high school students, followed by 23 percent in Science, Technology, Engineering, and Mathematics (STEM).
- Enrollment in AP courses **remained constant** at 37 percent in 2015–16 compared to the previous year for students enrolled in grades 10–12.
- The number of AP Awards presented to HISD students **increased** by 268 to 1,918 in 2015–16 reflecting a 16 percent increase compared to 2014–15.
- Twenty-four campuses earned more AP Awards in 2015–16 than in 2014–15 including nine campuses that increased the number of AP Awards earned by double-digits.

Introduction

The College Board's Advanced Placement (AP) Program provides participating high school students with the opportunity to take college-level courses and earn college credit, advanced placement, or both. A possible 36 examinations in Arts, AP Capstone (new in 2014–15), English, History and Social Science, STEM, and World Languages and Cultures are administered in May at participating schools (for a complete list of examinations in each category, see **Appendix A**). As reported by the College Board, 90 percent of colleges and universities grant credit, placement, or both to students receiving a qualifying score (i.e. 3 or higher on a scale of 1 to 5) on an AP Exam.¹

Studies show that students who take AP courses and exams are more likely to succeed in college.² Families may also experience tangential financial benefits if students receive advanced placement, college credit, or both. Other benefits afforded to students include opportunities that lead to scholarships or recognition. The AP Program recognizes high school students who have demonstrated outstanding college-level achievement through AP courses and exams with the AP Scholar Awards (**Appendix G-1**). Although there is no monetary award, each award-winning student receives a certificate, and the award is acknowledged on any AP score report that is sent to colleges after the award has been conferred.

For the 2015–2016 school year, all courses labeled as “AP” by HISD were authorized through the College Board AP Course Audit process. This audit process ensures that courses meet “AP” requirements and that colleges and universities have a venue to review authorized courses offered by secondary schools.³

Administration

The AP Exams are administered each year in May over a two-week period. Once testing has completed, all AP Exams are returned to the Educational Testing Service (ETS) and scores are reported to the College Board. Students who take AP Exams are not required to be enrolled in an AP course.

Scoring

The AP score in each exam is a weighted combination of scores on the multiple-choice section and on the free-response section. The final score is reported on a 5-point scale as follows:

- 5 = extremely well qualified
- 4 = well qualified
- 3 = qualified
- 2 = possibly qualified
- 1 = no recommendation

"Qualified" means that the student has demonstrated the capability of doing introductory-level coursework in a particular subject at college. Many colleges and universities grant credit and placement for scores of 3, 4 or 5; however, each college decides which scores it will accept.

¹ College Board. (2006). *Frequently Asked Questions about the AP Program*. Retrieved from http://www.collegeboard.com/prod_downloads/prof/advance-placement-qa.pdf.

² College Board. (2014). *The 10th Annual AP Report to the Nation*.

³ College Board – For Professionals. *Offering AP*. Retrieved from <http://professionals.collegeboard.com/k-12/assessment/ap/offer>.

The multiple-choice section is scored by computer. Each answer sheet is scanned and the total number of correct responses equals the multiple-choice score. The free-response section (essays and open-ended questions) is scored at the annual AP Reading held during the first two weeks in June. Specially appointed college professors and experienced AP teachers score this section of the exam. The total scores from the free-response section and the multiple-choice section are combined to form a composite score. These composite scores are then translated into the 5-point scale using statistical processes designed to ensure that a score of 3 this year reflects the same level of achievement as a score of 3 last year.

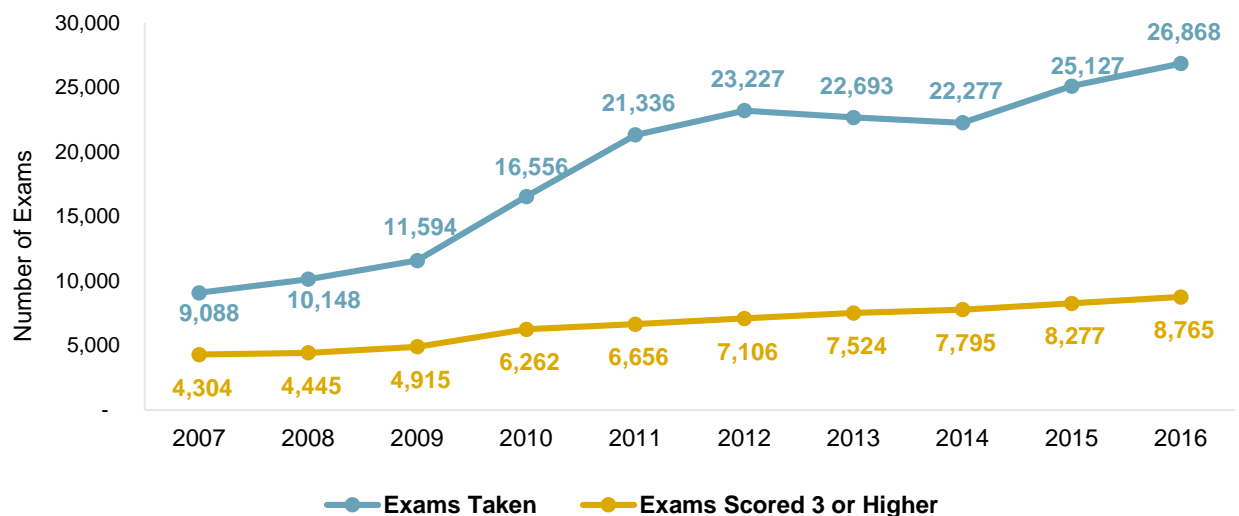
Results

Exam Participation and Performance

The total number of exams taken by HISD high school students **increased** by 7 percent (or 1,741 exams) to 26,868 in 2015–16 from 25,127 in 2014–15. **Appendix H** shows the participation and performance for the class of **2015** cohort in Texas. It shows that HISD is in line with the average percent of graduates earning a 3 or higher, but exceeds the average percent of graduates participating in AP, reflecting the district's inclusive policy.

The number of AP Exams taken at district high schools and the number and percent scored 3 or higher are shown in **Figure 1**.

Figure 1. AP Exam Participation and Performance, 9th - 12th grade, 2007 to 2016



2015 and 2016 Source: 2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results and 2016 College Board AP data file, retrieved October 5, 2016

2007 to 2014 Source: HISD Research and Accountability Department, Advanced Placement Report 2013–2014

Notes: This graph displays a duplicated count of exams taken by students enrolled in grades 9-12 and by students with grade level unknown (N=576).

Figure 1 indicates the following:

- The number of AP Exams taken by high school students **increased** by 196 percent to 26,868 in 2015–16 from 9,088 in 2006–07.
- The number of AP Exams scored 3 or higher in 2015–16 (8,765) is **more than double** the number scored 3 or higher in 2006–07 (4,304).

- Based on students' opportunity to earn at least 3 college credits for each AP Exam score of 3 or higher, 8,765 AP exams meeting the criteria at the high school level represents 26,295 estimated college credits. College Board calculates an average rate of \$318.87 per credit hour, indicating a total potential savings for the district's students and families of \$8,384,686.65.⁴

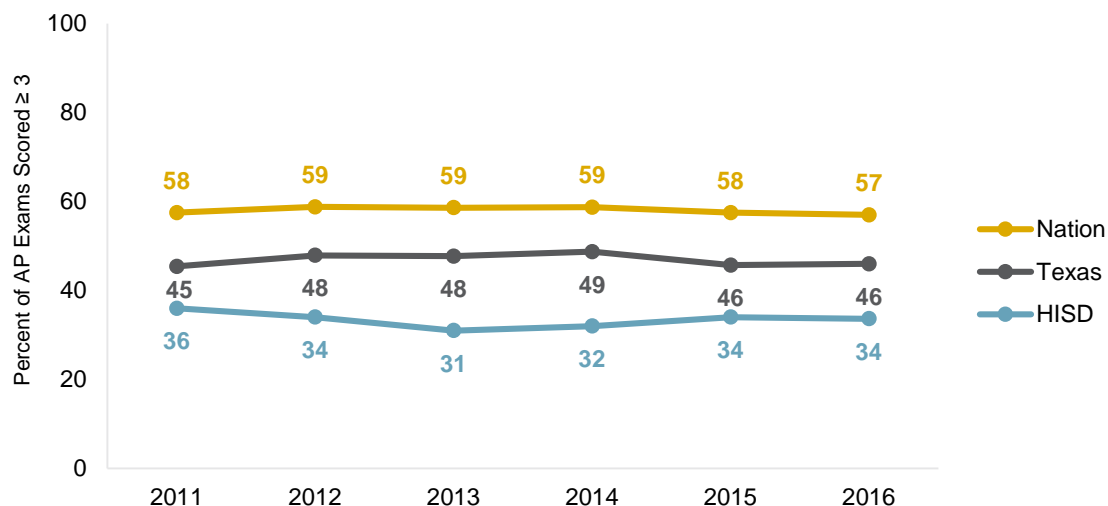
Comparison with State and Nation

The College Board provides AP data for the state of Texas and the nation. Between 2007 and 2016, the number of AP Exams taken by all students in Texas and the United States increased by 120 percent and 84 percent, respectively. As mentioned above, HISD experienced a sharper increase in the number of AP Exams taken by high school students, 196 percent for high school students and 200 percent when middle school students are included.

Figure 2 below presents the proportion of all AP Exams scored 3 or higher for HISD, Texas, and the Nation from 2010–11 through 2015–16. **Figure 2** indicates the following:

- In 2015–16, the proportion of AP Exams scored at 3 or higher in HISD is lower than that of Texas and the Nation by 12 and 23 percentage points, respectively.
- The proportion of AP Exams scored 3 or higher has stayed relatively flat for all three groups since 2010–11.

Figure 2. AP Exam Performance (HISD, Texas, Nation), 8th – 12th grade, 2011–2016



Texas and Nation Source: College Board AP Program Research "School Report of AP Exams 2010–11 through 2015–16 (By State)." Retrieved from <http://research.collegeboard.org/programs/ap/data>

2016 Source: 2016 College Board AP data file, retrieved October 5, 2016

HISD 2010–11 to 2014–15 Source: HISD Research and Accountability Department, Advanced Placement Report 2014–2015, 2013–2014, 2012–2013, 2011–2012, and 2010–2011

Notes: Figures for Nation include data for all 50 states and the District of Columbia.

While the *proportion* of exams scored 3 or higher in any given year is lower for HISD than it is for Texas and the nation, HISD has dramatically increased the *number* of exams scored 3 or higher. For example, between 2007 and 2016, the number of exams scored 3 or higher **increased** by 113 percent from 4,304 to 8,765 at HISD compared to increases of 114 percent in Texas and 79 percent in the U.S.⁵

⁴ The estimates are based on Table 5 of the 2016 College Board report, *Trends in College Pricing*.

⁵ Figures include exams taken by all students, including those in 8th grade.

By Exam Category

Figure 3 shows the number of AP Exams taken by HISD high school students by the six AP Exam subject categories outlined in **Appendix A** and the percent of exams scored 3 or higher.

Figure 3. AP Exam Participation and Performance by Exam Category, 9th - 12th grade, 2016

AP Exam Category	AP Exams Taken, N	AP Exams Taken, % of Total	AP Scores ≥ 3, N	AP Scores ≥ 3, % of Exams Taken
History & Social Science	12,619	47%	3,190	25%
STEM	6,241	23%	2,255	36%
English	5,220	19%	1,350	26%
World Languages & Culture	2,020	8%	1,603	79%
Arts	382	1%	147	38%
AP Capstone	386	<1%	220	57%
HISD Totals	26,868	100%	8,765	33%

Source: 2016 College Board AP data file; retrieved October 5, 2016

Notes: This graph displays a duplicated count of exams taken by students enrolled in grades 9-12 and by students with grade level unknown (N=576). Figures may not sum to 100 due to rounding.

Figure 3 indicates the following:

- AP Exams taken in the History & Social Science category represented the largest category (47 percent) followed by STEM (23 percent).
- Success rates ranged from 79 percent (World Languages & Cultures) to 25 percent (for History & Social Science).
- While less than one percent of exams were in the newest AP category, AP Capstone, the success rate was among the highest (57 percent).

By Student Group

Both the number of HISD high school students who took AP Exams and the number of AP Exams taken by HISD high school students increased in 2015–16 compared to the year before. The number of high school students who took AP Exams **increased** by 3 percent to 14,416 in 2015–16 from 13,929 in 2014–15 (**Table 1**).

Table 1 presents the number of HISD students in grades 9 through 12 in 2015–16 who took an AP Exam, the number of exams taken, and the number of exams scored 3 or higher by race/ethnicity, gender, economic status, and English Language Learner (ELL) status. Figures for 2014–15 are also presented for comparison. The number of students tested reflects an *unduplicated* count of students who took an AP Exam, and the number of exams taken is a *duplicated* count of exams. In other words, a given student is counted once and all the exams that student has taken are counted as well.

Table 1. AP Exam Participation and Performance by Student Group, 9th - 12th grade, 2015 and 2016

Student Group	Students Tested, N		AP Exams Taken, N		AP Scores ≥ 3, N		AP Scores ≥ 3, % of Exams	
	2015	2016	2015	2016	2015	2016	2015	2016
African American	2,758	2,691	4,360	4,375	627	612	14%	14%
American Indian	29	29	33	42	3	7	9%	7%
Asian/Pacific Islander	1,018	1,036	2,929	2,853	2,129	2,076	73%	75%
Hispanic	8,195	8,342	13,812	15,004	3,227	3,631	23%	22%
White	1,754	1,712	3,630	3,540	2,106	2,062	58%	59%
Two or more races	-	284	-	578	-	291	-	50%
Other	175	9	363	18	185	1	51%	6%
No Response	-	313	-	458	-	85	-	19%
Econ. Disadv.*	9,274	9,461	15,597	16,709	3,397	3,633	22%	20%
Non-Econ. Disadv.	4,637	4,917	9,509	10,104	4,872	5,108	51%	48%
ELL**	552	544	657	705	246	240	37%	35%
Non-ELL	13,359	13,834	24,449	26,108	8,023	8,501	33%	31%
Female	7,748	7,947	13,982	14,740	4,465	4,602	32%	30%
Male	6,181	6,469	11,145	12,138	3,812	4,163	34%	31%
HISD Totals	13,929	14,416	25,127	26,868	8,277	8,765	33%	33%

2015 Source: 2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results

2016 Source: 2016 College Board AP electronic data file, retrieved October 5, 2016

2016 ELL and economic status source: Chancery, May 2, 2016.

Notes: This table displays an unduplicated count of students tested and a duplicated count of exams taken by students enrolled in grades 9-12 and by students with grade level unknown (N=576). *Economic status could not be determined for 39 students. **ELL status could not be determined for 39 students. (-)Two or more races was not available for 2015. Race/ethnicity and gender were self-reported in 2016.

The data in **Table 1** show the following:

- Almost six out of ten (58 percent) HISD high school students who took an AP Exam in 2016 were Hispanic. The number of Hispanic students who took AP Exams **increased** by 2 percent and the number of exams taken by Hispanic students **increased** by 9 percent compared to last year. While the overall number of exams taken by Hispanic students scored 3 or higher **increased**, the *proportion* of exams scored 3 or higher **decreased** slightly from the previous year (22 percent in 2016 compared to 23 percent in 2015), meaning that slightly more than one out of five Hispanic students who took an AP exam passed.
- African-American students represented the second largest racial/ethnic group of students who took an AP Exam, accounting for one out of five (19 percent) of all AP test takers in 2016. When compared to last year, the number of African-American students who took AP Exams **decreased** by 2 percent and the number of exams taken by African-American students **increased** by less than one percent. The overall number of exams scored 3 or higher taken by African-American students **decreased** and the *proportion* of exams scored 3 or higher **remained the same** from the previous year (14 percent in both 2016 and 2015). Less than two out of ten African-American students who took an AP exam passed.
- White students accounted for 12 percent of AP test takers in 2016. When compared to last year, the number of White students who took AP Exams and the number of exams taken both **decreased** by 2 percent. While the overall number of exams scored 3 or higher taken by

White students **decreased** from the previous year, the *proportion* of exams scored 3 or higher **increased** from the previous year (59 percent in 2016 compared to 58 percent in 2015). White students are four times as likely as African-American students and three times as likely as Hispanic students to pass an AP Exam.

- Asian students accounted for 7 percent of AP test takers in 2016. When compared to last year, the number of Asian students who took AP Exams **increased** by 2 percent and the number of exams taken by Asian students **decreased** by 3 percent. While the overall number of exams scored 3 or higher taken by Asian students **decreased**, the *proportion* of exams scored 3 or higher **increased** from the previous year (75 percent in 2016 and 73% in 2015).
- Economically disadvantaged students accounted for 66 percent of AP test takers in 2016. When compared to last year, the number of economically disadvantaged students who took AP Exams **increased** by 2 percent and the number of exams taken by economically disadvantaged students **increased** by 7 percent. While the overall number of exams taken by economically disadvantaged students scored 3 or higher **increased**, the *proportion* of exams scored 3 or higher **decreased** slightly from the previous year (20 percent in 2016 compared to 22 percent in 2015). Non-economically-disadvantaged students are more than twice as likely to pass an AP Exam as economically-disadvantaged students (48 percent vs. 20 percent).

By Campus

Figure 4 shows the number of AP Exams taken by HISD students in grades 9 through 12 and the percent of exams scored 3 or higher for each campus in 2015 and 2016. All AP Exams are represented in this figure, regardless of whether the student was enrolled in the AP course. **Appendix B-1** provides additional details for the number of AP Exams taken and the corresponding performance by campus, and **Appendix B-2** provides the information by HISD Board Member District.

Figure 4 (p. 8) indicates the following:

- Students at Bellaire High School took the largest number of AP Exams in 2016 (2,814) while no exams were taken at REACH Charter High School (an alternative school). A median of 397 AP Exams was taken across 46 high school campuses.
- In 2016, exams taken at Bellaire HS, Carnegie Vanguard HS, and DeBakey HS accounted for 22 percent of all AP Exams taken in HISD but made up more than half (53 percent) of all exams that were scored 3 or higher.
- For the 44 campuses with two years of **participation** data and five or more testers, 27 campuses **increased** the number of AP Exams taken and 17 campuses **decreased** the number of AP Exams taken in 2016 compared to 2015.
- For the 44 campuses with two years of **performance** data and five or more testers, the number of AP Exams scored 3 or higher **increased** at 27 campuses, remained the same at two campuses, and **declined** at 15 campuses in 2016 compared to 2015.

Figure 4. AP Exam Participation and Performance by Campus, 9th–12th grade, 2015 and 2016

Ranked by the number of AP Exams taken in 2016

Campus	2015		2016		Change, 2015 to 2016	
	Exams Taken N	Exams ≥3 N	Exams Taken N	Exams ≥3 N	Exams Taken N	Exams ≥3 N
Bellaire HS	2,533	1,987	2,814	2,159	281	172
Carnegie HS	1,792	1,305	1,856	1,338	64	33
Lamar HS	1,655	200	1,842	188	187	-12
Heights HS	1,408	132	1,734	214	326	82
Westside HS	1,812	745	1,607	781	-205	36
Chavez HS	1,308	401	1,247	251	-61	-150
DeBakey HS	1,272	1,135	1,222	1,110	-50	-25
Westbury HS	1,054	101	892	97	-162	-4
Waltrip HS	724	92	859	106	135	14
Challenge ECHS	677	238	829	239	152	1
Houston MSTC HS	1,043	127	821	104	-222	-23
Northside HS	666	108	784	112	118	4
HS for Law & Justice	698	33	765	68	67	35
HS Perf. Vis. Arts	590	410	688	507	98	97
Eastwood Acad	625	239	675	244	50	5
E-STEM West HS	438	3	639	34	201	31
Sharpstown HS	511	122	575	181	64	59
N. Houston ECHS	511	107	572	73	61	-34
Hou Acad. Intl.	328	61	504	72	176	11
Milby HS	557	85	494	102	-63	17
Madison HS	525	42	439	29	-86	-13
Sharpstown Intl	354	118	439	168	85	50
Sterling HS	328	10	404	29	76	19
Energy Inst HS	106	50	390	102	284	52
Austin HS	633	96	389	45	-244	-51
Washington HS	252	29	363	30	111	1
Wisdom HS	291	54	356	28	65	-26
YWCPA	243	25	352	18	109	-7
East ECHS	335	93	279	124	-56	31
Jordan HS	302	22	278	1	-24	-21
Leland YMCPA	166	20	213	38	47	18
Scarborough HS	233	8	187	18	-46	10
Yates HS	141	3	182	6	41	3
Furr HS	207	13	155	7	-52	-6
Mount Carmel Acad.	140	24	154	21	14	-3
Tx Conn. Acad.	48	23	153	81	105	58
Worthing HS	112	0	132	0	20	0
E-STEM Central HS	58	0	121	1	63	1
Jones HS	119	3	103	10	-16	7
South ECHS	32	1	95	19	63	18
Kashmere HS	87	0	78	1	-9	1
North Forest HS	87	1	74	0	-13	-1
Wheatley HS	109	1	69	1	-40	0
Long Acad	*	*	39	7	*	*
Liberty HS	15	9	5	1	-10	-8
Reach	*	*	--	--	--	--
HISD Totals	25,127	8,277	26,868	8,765	1,741	488

2016 Source: 2015 College Board AP electronic data file; retrieved October 5, 2016

2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results

Notes: *Masked # tested < 5. - - indicates no data for the current year. Bellaire and Lamar High Schools offer the International Baccalaureate (IB) Program in addition to Advanced Placement (AP). This table displays a duplicated count of exams taken by students enrolled in grades 9-12 and by students with grade level unknown (N=576).

By Exam and by Campus

Appendix C presents the results of students who took each AP exam and the percent of exams scored 3 or higher for each exam type by campus and district total.

Course Participation and Performance*AP Course Offerings*

Figure 5 shows the number of AP courses offered in HISD schools in 2014–15 and 2015–16, and the change in the number of courses from 2014–15 to 2015–16.

Figure 5 indicates the following:

- In 2016, 43 out of 55 HISD schools offered at least one AP course—this reflects a **decrease** of six schools that offered AP courses compared to 2014–15.⁶
- Of the 43 schools that offered AP courses in both 2015–16 and 2014–15, 29 schools **increased** the number of AP courses offered from 2014–15; 10 schools **decreased** AP course offerings; and 4 schools had no change.
- The largest **increase** in AP courses offered in 2015–16 compared to 2014–15 occurred at Leland YMCPA and Energy Institute HS (7 courses).
- The largest **decrease** in AP courses offered in 2015–16 compared to 2014–15 occurred at Wisdom HS (7 courses) and Jordan HS (5 courses).

⁶ This includes HISD campuses that serve students enrolled in grades 9, 10, 11, or 12 only.

Figure 5: Distinct AP Courses Offered* by Campus, 2014–15 and 2015–16

Ranked by the number of courses in 2015–16

Campus	2014–2015	2015–16
Carnegie HS	26	30
Westside HS	28	28
Bellaire HS	24	23
Houston MSTC HS	18	22
DeBakey HS	19	21
Heights HS	17	21
Northside HS	22	21
Chavez HS	18	20
Eastwood Acad	20	19
HS for Law & Justice	15	18
Sharpstown Intl	16	18
Sharpstown HS	16	17
Waltrip HS	14	16
Austin HS	15	15
Leland YMCPA	8	15
Madison HS	15	15
Milby HS	14	15
Scarborough HS	13	15
Washington HS	9	14
Westbury HS	15	14
HS Perf. Vis. Arts	11	13
Sterling HS	16	13
Wisdom HS	20	13
YWCPA	10	13
Challenge HS	10	12
Furr HS	13	12
Energy Inst HS	4	11
E-STEM Central HS	7	11
E-STEM West HS	8	11
Hou Acad. Intl.	9	11
N. Houston ECHS	9	11
Yates HS	7	11
East ECHS	8	9
Kashmere HS	8	9
Mount Carmel Acad.	8	8
North Forest HS	9	8
Wheatley HS	7	8
Jordan HS	12	7
Worthing HS	5	7
Jones HS	5	6
Lamar HS	6	5
South ECHS	2	4
Community Services	1	3
Liberty HS	3	0
AVA±	11	-
Beechnut Acad.	7	0
JJAEP	2	0
REACH HS	2	0
Texas Connections Acad.±	2	-
HISD	35	36

2015–16 Source: End of Year Chancery Grades data files, June 6, 2016

2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results

Note: *Courses displayed had at least one student enrolled within the respective academic year. Bellaire and Lamar High Schools offer the International Baccalaureate (IB) Program in addition to Advanced Placement (AP).

±No data was available based on the June 6, 2016 extract.

By Student Group

AP course completion is defined as students enrolled in an AP course who earn a passing grade at the end of the course (70 or higher) for each semester that is required (most AP courses require two semesters to qualify for completion). Very few AP courses are available for students in grade 9, but ninth grade usually has the largest enrollment in high schools. Thus, basing percentages of AP courses on enrollment that includes 9th graders does not accurately reflect the rates of participation. **Table 2** presents the number and percent of HISD students in grades 10 – 12 who completed AP courses by student group including race/ethnicity, economic status, English Language Learner status, and gender. This table reflects an *unduplicated* count of students for courses.

Table 2. AP Course Enrollment and Completion by Student Group, 10th –12th grade, 2014–15 and 2015–16

Student Group	2015–16					
	Grades 10-12 Enrollment		AP Course Enrollment		AP Course Completion	
	Total	Percent	Total	Percent	Total	Percent
African American	8,694	25	2,716	31	2,338	86
American Indian/Alaskan Native	73	0	21	29	19	90
Asian/Pacific Islander	1,451	4	945	65	919	97
Hispanic	20,758	60	7,556	36	6,625	88
White	3,603	10	1,479	41	1,407	95
Two or More	298	1	129	43	123	95
Econ. Disadv.	24,486	70	8,677	35	7,591	87
Non-Econ. Disadv.	10,391	30	4,169	40	3,840	92
ELL	3,740	11	458	12	367	80
Non-ELL	31,137	89	12,388	40	11,064	89
Female	17,631	51	7,033	40	6,387	91
Male	17,246	49	5,813	34	5,044	87
HISD Totals	34,877	100	12,846	37	11,431	89

Student Group	2014–15					
	Grades 10-12 Enrollment		AP Course Enrollment		AP Course Completion	
	Total	Percent	Total	Percent	Total	Percent
African American	8,621	25	2,653	31	2,261	85
American Indian/Alaskan Native	83	0	26	31	23	88
Asian/Pacific Islander	1,439	4	951	66	921	97
Hispanic	19,931	59	7,234	36	6,367	88
White	3,483	10	1,425	41	1,366	96
Two or More	253	1	114	45	110	96
Econ. Disadv.	22,408	66	8,373	37	7,319	87
Non-Econ. Disadv.	11,402	34	4,030	35	3,729	93
ELL	3,410	10	438	13	374	85
Non-ELL	30,400	90	11,965	39	10,674	89
Female	17,050	50	6,841	40	6,232	91
Male	16,760	50	5,562	33	4,816	87
HISD Totals	33,810	100	12,403	37	11,048	89

2015–16 Source: End of Year Chancery Grades data files, June 6, 2016

2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results

Notes: Table displays an unduplicated count of HISD students enrolled in grades 10-12. AP course completion is defined as enrolled in an AP course and earning a passing grade at the end of the course (70 or higher) for each semester that is required.

Table 2 indicates the following:

- In 2015–16, the *number* of 10th–12th graders enrolled in an AP course **increased** for the district. In 2015–16, 12,846 students were enrolled in an AP course, which represents a 4 percent **increase** from the previous year. However, the *proportion* of 10th–12th graders enrolled in an AP course remained the same when comparing 2015–2016 to the previous year.
- The *number* of 10th–12th graders enrolled in an AP course **increased** for all racial/ethnic groups in 2015–16 except for American Indian and Asian/Pacific Islander students where the number declined by 5 and 6 students respectively. The *proportion* of African American, Hispanic, and White students enrolled in AP courses **remained the same** when comparing 2014–15 to 2015–16.
- The *number* of 10th–12th graders enrolled in an AP course **increased** for economically disadvantaged students in 2015–16 compared to the previous year. However, the *proportion* of economically disadvantaged students enrolled in an AP course **declined** by two percentage points from the previous year, and the course completion rate **did not change** when comparing 2015–16 to 2014–15.
- Hispanic and African-American students are less likely to enroll in AP courses compared to their Asian and White counterparts. Only 36 percent and 31 percent of Hispanic and African-American students, respectively, were enrolled in AP courses in 2015–16 compared to 41 percent and 65 percent of White and Asian students, respectively.
- Among students enrolled in AP courses in 2015–16, 89 percent completed at least one, reflecting the same completion rate as the previous year. AP course completion rates **increased** between 2014–15 and 2015–16 for African-American and American Indian students (1 and 2 percentage points, respectively), **remained the same** for Asian/Pacific Islander and Hispanic students, and **declined** for White students (1 percentage point).

By Campus

Figure 6 shows the percent of students in grades 10–12 who completed at least one AP course in 2014–15 and 2015–16 by campus. Data for **Figure 5** is *unduplicated*—a student in grades 10–12 is counted only once if the student took and completed one or more AP courses. Percentages are based on AP courses taken by students in grades 10–12.

Figure 6: AP Course Completion by Campus, 10th - 12th grade, 2014–15 and 2015–16

Ranked by number of course completers in 2016

Campus	2014–15			2015–16			Change 2014–15 to 2015–16		
	Total Enrolled 10-12	Completed ≥ 1 AP Course		Total Enrolled 10-12	Completed ≥ 1 AP Course		Total Enrolled 10-12	Completed ≥ 1 AP Course	
		N	%		N	%		N	%
Westside HS	1,937	844	44	2,023	881	44	86	37	0
Bellaire HS	2,604	843	32	2,507	877	35	-97	34	3
Lamar HS	2,255	600	27	2,327	668	29	72	68	2
Heights HS	1,536	685	45	1,600	666	42	64	-19	-3
Chavez HS	2,063	527	26	2,088	594	28	25	67	2
Westbury HS	1,356	591	44	1,332	470	35	-24	-121	-9
Carnegie HS	437	434	99	435	433	100	-2	-1	1
DeBakey HS	580	452	78	577	432	75	-3	-20	-3
Waltrip HS	1,141	320	28	1,123	432	38	-18	112	10
Houston MST	1,534	496	32	1,671	404	24	137	-92	-8
Northside HS	1,199	328	27	1,121	338	30	-78	10	3
Challenge HS	332	289	87	350	309	88	18	20	1
Sharpstown HS	884	238	27	958	297	31	74	59	4
HS Perf. Vis. Arts	508	266	52	532	283	53	24	17	1
Madison HS	1,198	313	26	1,146	274	24	-52	-39	-2
Law Enfor Crim Justice HS	341	301	88	305	258	85	-36	-43	-3
Hou Acad. Intl.	310	168	54	310	257	83	0	89	29
Milby HS	1,251	285	23	1,055	251	24	-196	-34	1
Austin HS	1,099	394	36	1,157	239	21	58	-155	-15
E-STEM West HS	169	154	91	233	231	99	64	77	8
Eastwood Academy	307	232	76	302	225	75	-5	-7	-1
N. Houston ECHS	303	174	57	324	224	69	21	50	12
Wisdom HS	919	196	21	1,052	223	21	133	27	0
Sharpstown International	375	194	52	399	212	53	24	18	1
Sterling HS	629	139	22	633	210	33	4	71	11
Furr HS	647	219	34	703	206	29	56	-13	-5
Energy Inst HS	152	64	42	317	177	56	165	113	14
Jordan HS	558	259	46	496	176	35	-62	-83	-11
Washington HS	446	110	25	464	134	29	18	24	4
YWCPA	111	79	71	125	122	98	14	43	27
East ECHS	335	126	38	320	120	38	-15	-6	0
Yates HS	621	113	18	586	112	19	-35	-1	1
Scarborough HS	448	113	25	471	106	23	23	-7	-2
Wheatley HS	499	95	19	474	99	21	-25	4	2
Jones HS	57	40	70	140	73	52	83	33	-18
Mount Carmel Acad.	254	69	27	260	70	27	6	1	0
Worthing HS	395	77	19	468	69	15	73	-8	-4
Leland YMCPA	45	43	96	77	65	84	32	22	-12
North Forest HS	625	71	11	658	50	8	33	-21	-3
South ECHS	--	--	--	101	44	44	--	--	--
Energized STEM HS SE	20	20	100	42	39	93	22	19	-7
Kashmere HS	340	46	14	347	34	10	7	-12	-4
Long Acad.	--	--	--	175	27	15	--	--	--
Community Services	--	--	--	23	*	--	--	--	--
Texas Connections Acad.	1,303	13	--	1,643	--	--	--	--	--
AVA	426	*	--	359	--	--	--	--	--
Beechnut Academy	102	*	--	116	--	--	--	--	--
Liberty HS	365	*	--	393	--	--	--	--	--
JJAEP	*	*	--	5	--	--	--	--	--
HISD Totals	33,810	11,048	33	34,323	11,411	33	513	364	0

2015–2016 Source: End of Year Chancery Grades data files, June 6, 2016

2014–2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results

Notes: Table displays an unduplicated count of HISD students enrolled in grades 10-12. Bellaire and Lamar High Schools offer the International Baccalaureate (IB) Program in addition to Advanced Placement (AP). *Masked # students < 5.

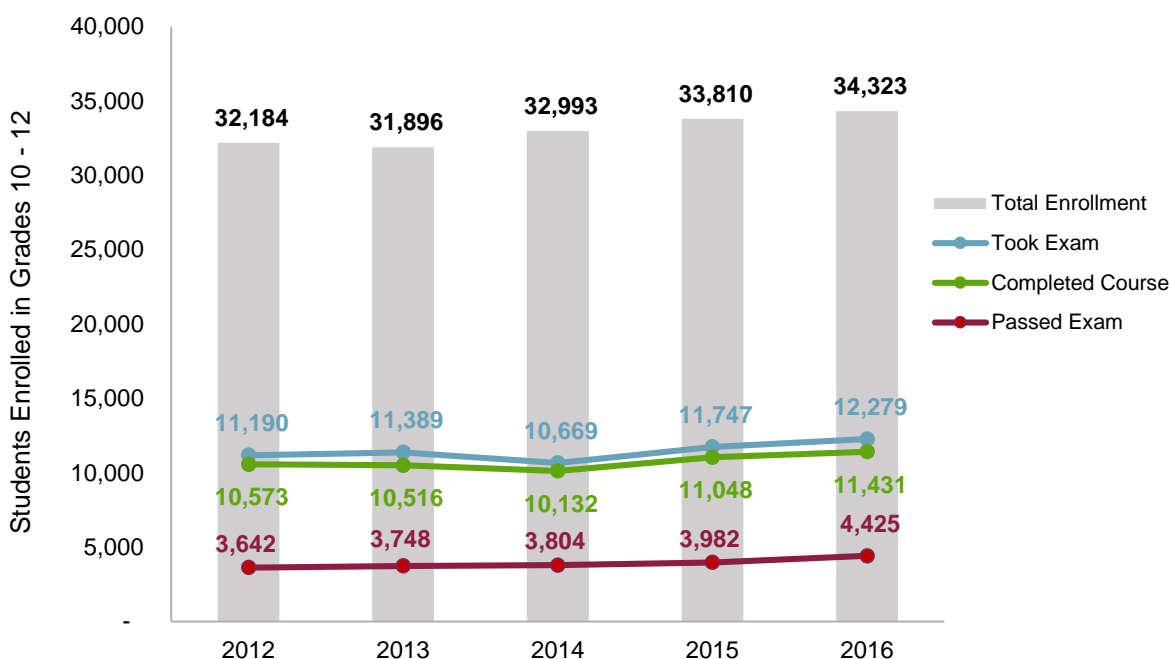
Figure 6 indicates the following:

- HISD students were just as likely to complete an AP course this year compared to last year. In 2015–16, 33 percent of students enrolled in grades 10–12 in the district completed at least one AP course, reflecting the same completion rates as last year.
- In 2015–16, the proportion of students enrolled in grades 10–12 who completed at least one AP course ranged from four percent at Community Services to 100 percent at Carnegie HS.
- Among the 41 HISD campuses with two years of data, the proportion of students who completed at least one AP course **increased** in 2015–16 from the previous year at 20 campuses and **declined** at 17 campuses.

Course and Exam Participation and Performance

Figure 7 shows the number of students enrolled in grades 10–12 who completed at least one AP course, the number who took at least one AP Exam, and the number who received a score of 3 or higher on at least one AP Exam from 2011–12 to 2015–16. Figures for each series reflect an *unduplicated* count of students.

Figure 7. AP Course Completion and Exam Performance, 10th – 12th grade, 2011–12 to 2015–16



2015–2016 Grade level and course enrollment source: End of Year Chancery Grades data files, June 6, 2016

2012–2015 2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results

Exam source: College Board AP data files for respective year.

Note: This graph displays an unduplicated count of students enrolled in grades 10–12. AP course completion is defined as receiving a passing grade at the end of the course (70 or higher) for each semester that is required. Students could take the AP exam without completing the AP course or could have taken the AP course outside of HISD.

Figure 7 indicates:

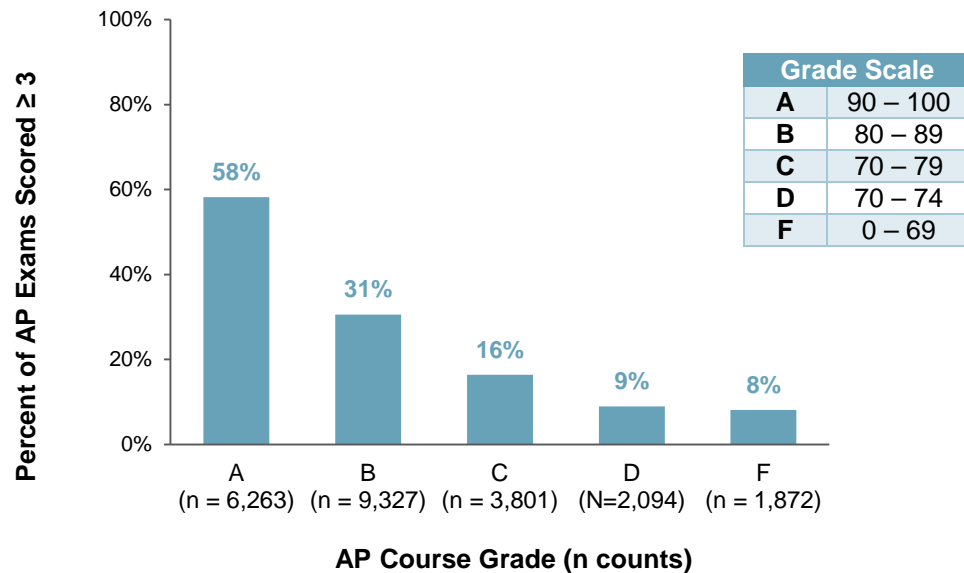
- The number of students enrolled in grades 10 through 12 who took at least one AP Exam **increased** by ten percent to 12,279 in 2015–16 from 11,190 in 2011–12.
- The number of students enrolled in grades 10 through 12 who completed at least one AP course **increased** by eight percent to 11,431 in 2015–16 from 10,573 in 2011–12.
- The number of students enrolled in grades 10 through 12 who passed at least one AP Exam **increased** by 21 percent to 4,425 in 2015–16 from 3,642 in 2011–12.
- Among students enrolled in grades 10 through 12 in 2015–16, 36 percent had taken at least one AP Exam, 33 percent had completed an AP course, and 13 percent had passed an AP Exam.

By Exam Category

Of the 26,868 AP Exams taken in 2015–16 by HISD high school students, the majority (23,357 or 87 percent) were associated with a corresponding AP course for which a grade was received. Among the 23,357 exams taken for which an AP course grade was also received, 32 percent

earned scores 3 or higher and 92 percent earned a course grade with a score of 70 or higher. **Figure 8** compares the percent of all AP Exams scored 3 or higher with the grade earned in the corresponding AP course. **Appendix D** presents these findings by each of the six AP subject areas.

Figure 8: AP Exam Performance by AP Course Grade, 9th - 12th grade, 2015–16



Course Grade Source: End of Year Chancery Grades data files, June 6, 2016

AP Exam Score Source: 2016 College Board AP data file; retrieved October 5, 2016

Notes: AP courses and exams are linked--these graphs display AP Exams for which a corresponding AP course grade exists. Graph displays a duplicated count of AP courses/exams taken by students enrolled in grades 9–12.

Figure 8 indicates the following:

- Among students who earned an A in an AP course, 58 percent scored 3 or higher on the corresponding AP Exam.
- Among students who earned a B in an AP course, 31 percent scored 3 or higher on the corresponding AP Exam.
- Among students who earned a C in an AP course, scored 3 or higher on the corresponding AP Exam.
- Among students who earned a D in an AP course, 9 percent scored 3 or higher on the corresponding AP Exam.
- Among students who failed an AP course, 8 percent scored 3 or higher on the corresponding AP Exam.

Key findings from **Appendix D** include:

- Sixty-eight percent of students who failed their World Languages & Culture AP course also scored 3 or higher on the corresponding AP Exam.
- About half of students who earned an A in AP Arts, English, and History & Social Sciences courses scored 3 or higher on the corresponding AP Exam.

By Campus

Corresponding AP course enrollment and exam data are presented by campus in **Appendix E**. Data analyzed include students enrolled in grades 9–12, the number of AP courses offered, the number and percent of AP courses completed (passed), and the number and percent of AP Exams taken and scored 3 or higher by campus.

“Emerging Scholars” 8th and 9th Grade

Though AP courses and exams are usually taken by students in grades 10–12, increasingly, students in middle school and ninth grade are taking advantage of the opportunity to earn college credits early in their academic careers. The most common courses and exams taken by middle school students and ninth graders are Human Geography and Spanish language courses and exams. **Table 3** presents AP course and exam participation and performance for students in grades 8 and 9.

Table 3: AP Course and Exam Participation and Performance, 8th - 9th grade, 2014–15 and 2015–16

2015–16						
Grade	AP Course Enrollment N	AP Course Completion N	AP Course Completion %	AP Exams Taken N	AP Scores ≥ 3 N	AP Scores ≥ 3 %
8	534	490	92	517	415	80
9	2,216	1,789	81	2,275	589	26
HISD Totals	2,750	2,279	83	2,792	1,004	36
2014–15						
Grade	AP Course Enrollment N	AP Course Completion N	AP Course Completion %	AP Exams Taken N	AP Scores ≥ 3 N	AP Scores ≥ 3 %
8	452	411	91	542	470	87
9	2,130	1,708	80	2,299	643	28
HISD Totals	2,582	2,119	82	2,841	1,113	39

2015–16 Course Source: End of Year Chancery Grades data files, June 6, 2016

2016 AP Exam Source: 2016 College Board AP data file, retrieved

2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results

Notes: Table displays a duplicated count of exams taken by students enrolled in grades 8 and 9 only. AP course completion is defined as enrolled in an AP course and earning a passing grade at the end of the course (70 or higher) for each semester that is required.

Table 3 indicates the following:

- In 2015–16, 2,750 district eighth and ninth graders enrolled in an AP course, compared to 2,582 district eighth and ninth graders in 2014–15. In 2015–16, 2,279 (83 percent) of those students completed the course, compared to 2,119 (82 percent) in 2014–15.
- A combined total of 2,792 HISD eighth and ninth graders took AP Exams in 2015–16, compared to 2,841 in 2014–15, representing a **decrease** of 2 percent.

- In 2015–16, 36 percent of AP Exams were scored 3 or higher, **down** three percentage points from 2014–15.

Figure 9 presents the type of AP Exams taken by 8th graders only. AP Exam participation and performance for 8th graders by exam and campus are presented in **Appendix F**.

Figure 9: AP Exam Participation and Performance by Exam, 8th grade, 2016

AP Exam	AP Exams Taken, N	AP Exams Taken, % of Total	AP Scores ≥ 3, N	AP Scores ≥ 3, % of Exams Taken
Spanish Language & Culture	507	98%	442	87%
Chinese Language & Culture	10	2%	10	100%
HISD Totals	517	100%	452	87%

Source: 2016 College Board AP electronic data file; retrieved October 5, 2016.

Note: This table displays a duplicated count of exams taken by students enrolled in 8th grade and grade unknown (N=9).

Figure 9 indicates the following:

- The vast majority of 8th graders (98 percent) took Spanish Language & Culture exams and passed (87 percent).

AP Scholar Awards

The AP Program offers several AP Scholar Awards to recognize high school students who have demonstrated college-level achievement through AP courses and exams. This achievement is acknowledged on any score report that is sent to colleges the following fall. Notifications about AP Scholar Awards are sent to students and schools in October of each year. The following AP Awards are offered by the College Board: AP Scholar, AP Scholar with Honor, AP Scholar with Distinction, State AP Scholar, National AP Scholar, AP International Diploma, AP Capstone Diploma, and AP Seminar and Research Certificate. The criteria for receiving these awards are shown in **Appendix G-1**.

Appendix G-2 shows the number and category of AP Awards earned by campus in 2015 and 2016. Key findings include:

- The number of AP Scholar Awards earned by HISD students **increased** by 16 percent, or 268 Awards, to 1,918 in 2015–16 from 1,650 in 2014–15.
- Almost two-thirds of all AP Awards were earned by students at three campuses: Bellaire HS (27 percent), Carnegie Vanguard HS (20 percent), and DeBakey HS (17 percent).

Conclusion

The purpose of this report was to examine the participation and performance of HISD students on Advanced Placement exams and courses. The investigation was also designed to supply a comparison of current year AP results with those from the previous year.

The results from this report indicate that the number of HISD middle and high school students taking AP Exams and earning a score of 3 or higher is increasing. However, the proportion of students who earn a score of 3 or higher has remained the same from the previous year. Relatedly, the success rate on the exams students are most likely to take, History & Social Sciences and English, is lower than that of other exams. While the number of students from historically underrepresented groups (such as African Americans, Hispanics, and those who are economically disadvantaged) who take AP Exams is increasing, they typically are less likely to pass AP Exams compared to their White and Asian counterparts. Additionally, the majority of AP Exams are taken by students from concentrated high schools in the district.

AP Course participation has remained constant. Approximately 37 percent of students enrolled in grades 10–12 took at least one AP course—reflecting the same percentage as last year. African American and American Indian students experienced the greatest percentage point increases in AP course completion. An analysis of how AP course performance compares with AP Exam performance showed that students who earned an A in AP Arts, English, History & Social Sciences, and Sciences courses were only about half as likely to pass the corresponding AP Exam. Meanwhile, the majority of students who failed an AP World Languages & Culture course were still likely to pass the corresponding AP Exam.

The number of AP Awards presented to HISD students increased again this year. Many more HISD students are being exposed to Advanced Placement courses and to the opportunity to earn college credits while still enrolled in high school.

Methods

Data Limitations

The College Board receives Advanced Placement (AP) data from the Educational Testing Service (ETS). It is important to understand that the extracts are made from a dynamic database that changes from one day to the next as scoring and adjustments to individual student records progresses in the months following the examination administration. Therefore, discrepancies may exist between the three sources of data that are used for AP Exam reporting purposes, namely the College Board Reports (hard copy), the AP Online Score Reports, and the College Board (electronic) data file based on the time of the data extract. AP data for prior years were copied from HISD's previous AP report (2014–15, Superintendent memo dated November 10, 2015). AP data for the previous year were extracted on August 14, 2015. AP Data for the current school year (2015–16) were extracted from the College Board on October 5, 2016 in the form of electronic files.

To provide disaggregated student level demographic information, the College Board AP electronic databases were matched on economic status and ELL status to the Chancery data file (date of extraction: May 5, 2016). Self-reported data were used for race/ethnicity, gender, grade level, and campus. Students who were identified as enrolled in AP courses were required to be active students as of the EOY database and to have completed the course with a final semester grade or final grade in both the fall and spring semesters of a full-year course. The number of AP courses offered by campus included all AP courses in which at least one student was enrolled. Bellaire and Lamar High Schools offer the International Baccalaureate (IB) Program in addition to Advanced Placement (AP). As such, it is possible for students at these campuses to take an IB course in one subject—instead of the AP course—and to also take the AP Exam in the same subject.

Participants

AP course enrollment data from Chancery and AP Exam data from the College Board were analyzed. State- and National-level data, including the number of AP subject tests taken along with the percentage of exams with scores 3 or higher, were extracted from the College Board AP Program Research “School Report of AP Exams 2010–11 through 2015–16 (By State).”

AP Course participation rates for sophomores, juniors and seniors were calculated by dividing the number of students enrolling in at least one AP course by the Chancery EOY snapshot of enrollment for the same group. Participation rates for sophomores, juniors and seniors were calculated across the district, by campus, and by student group.

The number of students eligible to complete AP courses consists of those enrolled in both semesters of a two-semester course as per the Chancery EOY database and/or those enrolled in a one-semester course. Completion percentages are based on the number of students eligible to complete and the number completing an AP course.

Course completion was determined by counting those students who received a semester average grade of 70 or higher for the final grade. Once this number was computed, it was divided by the total number of students who were eligible to complete an AP course.

To determine the percentage of AP Exams scored 3 or higher by race/ethnicity, the total number of tests scoring a 3 or higher was divided by the total number of tests taken (for which a score was received) for each racial/ethnic category.

AP Exams were counted if they had received a score at the time of data retrieval. Any AP Exam without a corresponding score was excluded from analysis.

Data Collection and Analysis

The College Board reported test performance, along with demographic information supplied by the students to HISD. These data included results for all HISD schools that had participating students. These data, together with enrollment data from the Chancery database, were analyzed. Analyses were conducted using the aggregated data by grade, race/ethnicity, and gender. Results were also analyzed by campus and district-wide. The analysis used self-reported demographic data, with the exception of ELL and economic status, for which data were extracted from Chancery on May 5, 2016. Only exams that had received a score by the time the data was extracted on October 5, 2016 were included in this analysis. Campuses that had not provided semester grades by June 6, 2016

Appendix A

2015–16 Advanced Placement Exams by Category

Arts (5)
<ul style="list-style-type: none"> • Art History • Music Theory • Studio Art: 2-D Design • Studio Art: 3-D Design • Studio Art: Drawing
AP Capstone (2)
<ul style="list-style-type: none"> • Seminar • Research
English (2)
<ul style="list-style-type: none"> • English Language and Composition • English Literature and Composition
History & Social Science (9)
<ul style="list-style-type: none"> • Comparative Government and Politics • European History • Human Geography • Macroeconomics • Microeconomics • Psychology • United States Government and Politics • United States History • World History
STEM (11)
<ul style="list-style-type: none"> • Biology • Chemistry • Calculus AB • Calculus BC • Computer Science A • Environmental Science • Physics 1 • Physics 2 • Physics C: Electricity and Magnetism • Physics C: Mechanics • Statistics
World Languages & Cultures (7)
<ul style="list-style-type: none"> • Chinese Language and Culture • French Language and Culture • Italian Language and Culture • Japanese Language and Culture • Latin • Spanish Language and Culture • Spanish Literature and Culture

Source: College Board, AP Central, Retrieved from
http://apcentral.collegeboard.com/apc/public/exam/exam_information/index.html

Appendix B-1

AP Exam Participation and Performance by Campus, 9th - 12th grade, 2015 and 2016

Campus	2015				2016			
	# Students Tested	# Exams Taken	# AP Exams Scoring ≥ 3	% AP Exams Scoring ≥ 3	# Students Tested	# Exams Taken	# AP Exams Scoring ≥ 3	% AP Exams Scoring ≥ 3
Austin HS	455	633	96	15	281	389	45	12
Bellaire HS	923	2,533	1,987	78	977	2,814	2,159	77
Carnegie HS	591	1,792	1,305	73	604	1,856	1,338	72
Challenge ECHS	423	677	238	35	422	829	239	29
Chavez HS	700	1,308	401	31	629	1,247	251	20
DeBaKey HS	451	1,272	1,135	89	439	1,222	1,110	91
East ECHS	224	335	93	28	226	279	124	44
Eastwood Acad	338	625	239	38	333	675	244	36
Energy Inst HS	94	106	50	47	202	390	102	26
E-STEM Central HS	41	58	0	0	95	121	1	1
E-STEM West HS	308	438	3	1	299	639	34	5
Furr HS	165	207	13	6	130	155	7	5
Heights HS	731	1,408	132	9	800	1,734	214	12
Hou Acad. Intl.	269	328	61	19	392	504	72	14
Houston MSTC HS	633	1,043	127	12	483	821	104	13
HS for Law & Justice	319	698	33	5	306	765	68	9
HS Perf. Vis. Arts	265	590	410	69	281	688	507	74
Jones HS	89	119	3	3	74	103	10	10
Jordan HS	226	302	22	7	189	278	1	0
Kashmere HS	48	87	0	0	33	78	1	1
Lamar HS	1,594	1,655	200	12	1,767	1,842	188	10
Leland YMCPA	64	166	20	12	93	213	38	18
Liberty HS	8	15	9	60	5	5	1	20
Long Acad	1	*	*	*	36	39	7	18
Madison HS	314	525	42	8	277	439	29	7
Milby HS	311	557	85	15	272	494	102	21
Mount Carmel Acad.	69	140	24	17	70	154	21	14
N. Houston ECHS	321	511	107	21	351	572	73	13
North Forest HS	39	87	1	1	50	74	0	0
Northside HS	349	666	108	16	397	784	112	14
Reach	1	*	*	*	0	--	--	--
Scarborough HS	176	233	8	3	135	187	18	10
Sharpstown HS	296	511	122	24	336	575	181	31
Sharpstown Intl	213	354	118	33	253	439	168	38
South ECHS	32	32	1	3	73	95	19	20
Sterling HS	190	328	10	3	272	404	29	7
Tx Conn. Acad.	31	48	23	48	81	153	81	53
Waltrip HS	409	724	92	13	434	859	106	12
Washington HS	125	252	29	12	200	363	30	8
Westbury HS	608	1,054	101	10	505	892	97	11
Westside HS	956	1,812	745	41	986	1,607	781	49
Wheatley HS	69	109	1	1	66	69	1	1
Wisdom HS	183	291	54	19	233	356	28	8
Worthing HS	88	112	0	0	83	132	0	0
Yates HS	110	141	3	2	123	182	6	3
YWCPA	79	243	25	10	123	352	18	5
HISD Totals	13,929	25,125	8,277	33	14,416	26,868	8,765	33

2016 Source: 2016 College Board AP Electronic data file, retrieved October 5, 2016.

2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results

Notes: *Masked # tested < 5. -- denotes no data available. Bellaire and Lamar High Schools offer the International Baccalaureate Program in addition to Advanced Placement. This table displays an unduplicated count of students tested and a duplicated count of exams taken by students enrolled in grades 9-12 and by students with grade level not indicated (N=579).

Appendix B-2

AP Exam Participation and Performance by Campus and Board Member District, 9th - 12th grade, 2015 and 2016

Board Member District	Campus	2014-2015				2015-2016			
		# Students Tested	# Exams Taken	# AP Scores ≥ 3	% AP Scores ≥ 3	# Students Tested	# Exams Taken	# AP Scores ≥ 3	% AP Scores ≥ 3
District I	Heights HS	731	1,408	132	9	800	1,734	214	12
District I	Houston MSTC HS	633	1,043	127	12	483	821	104	13
District I	N. Houston ECHS	321	511	107	21	351	572	73	13
District I	Northside HS	349	666	108	16	397	784	112	14
District I	Scarborough HS	176	233	8	3	135	187	18	10
District I	Waltrip HS	409	724	92	13	434	859	106	12
District II	Jordan HS	226	302	22	7	189	278	1	0
District II	Kashmere HS	48	87	0	0	33	78	1	1
District II	Leland YMCPA	64	166	20	12	93	213	38	18
District II	North Forest HS	39	87	1	1	50	74	0	0
District II	Washington HS	125	252	29	12	200	363	30	8
District II	Wheatley HS	69	109	1	1	66	69	1	1
District III	Chavez HS	700	1308	401	31	629	1247	251	20
District III	Milby HS	311	557	85	15	272	494	102	21
District III	Mount Carmel Acad.	69	140	24	17	70	154	21	14
District IV	DeBaKey HS	451	1,272	1,135	89	439	1,222	1,110	91
District IV	Hou Acad. Intl.	269	328	61	19	392	504	72	14
District IV	Jones HS	89	119	3	3	74	103	10	10
District IV	Sterling HS	190	328	10	3	272	404	29	7
District IV	Yates HS	110	141	3	2	123	182	6	3
District IV	YWCPA	79	243	25	10	123	352	18	5
District IX	Madison HS	314	525	42	8	277	439	29	7
District IX	South ECHS	32	32	1	3	73	95	19	20
District IX	Westbury HS	608	1,054	101	10	505	892	97	11
District IX	Worthing HS	88	112	0	0	83	132	0	0
District V	Bellaire HS	923	2,533	1,987	78	977	2,814	2,159	77
District V	Challenge ECHS	423	677	238	35	422	829	239	29
District V	E-STEM Central HS	41	58	0	0	95	121	1	1
District V	E-STEM West HS	308	438	3	1	299	639	34	5
District V	HS Perf. Vis. Arts	265	590	410	69	281	688	507	74
District V	Long Acad	*	*	*	*	36	39	7	18
District VI	Sharpstown HS	296	511	122	24	336	575	181	31
District VI	Sharpstown Intl	213	354	118	33	253	439	168	38
District VI	Westside HS	956	1,812	745	41	986	1,607	781	49
District VII	Lamar HS	1594	1655	200	12	1767	1842	188	10
District VII	Liberty HS	8	15	9	60	5	5	1	20
District VII	Wisdom HS	183	291	54	19	233	356	28	8
District VIII	Austin HS	455	633	96	15	281	389	45	12
District VIII	Carnegie HS	591	1792	1305	73	604	1856	1338	72
District VIII	East ECHS	224	335	93	28	226	279	124	44
District VIII	Eastwood Acad	338	625	239	38	333	675	244	36
District VIII	Energy Inst HS	94	106	50	47	202	390	102	26
District VIII	Furr HS	165	207	13	6	130	155	7	5
District VIII	HS for Law & Justice	319	698	33	5	306	765	68	9
District VIII	Reach HS	*	*	*	*	--	--	--	--
District VIII	Tx Conn. Acad.	31	48	23	48	81	153	81	53
HISD Totals		13,929	25,127	8,277	33	14,416	26,868	8,765	33

2016 Source: 2016 College Board AP Electronic data file, retrieved October 5, 2016.

2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results

Notes: *Masked # tested < 5. -- denotes no data available. Bellaire and Lamar High Schools offer the International Baccalaureate Program in addition to Advanced Placement. This table displays an unduplicated count of students tested and a duplicated count of exams taken by students enrolled in grades 9-12 and by students with grade level not indicated (N=579).

Appendix C

				Houston ISD	Austin HS	Bellaire HS	Carnegie HS	Challenge ECHS	Chavez HS	DeBakey HS	East ECHS	Eastwood Acad	Energy Inst HS	E-STEM Central HS	E-STEM West HS	Furr HS	Heights HS	Hou Acad, Intl.	Houston MSTC HS	HS for Law & Justice	HS Perf. Vn. Arts	Jones HS	Kashmere HS	Lamar HS	Leland YMCPA	Liberty HS	Long Acad	Madison HS	Milby HS	Mount Carmel Acad.	N. Houston ECHS	North Forest HS	Northside HS	Scarborough HS	Sharpstown HS	Sharpstown Intl	South ECHS	Sterling HS	Tx Comm. Acad.	Waltrip HS	Washington HS	Westbury HS	Westside HS	Whitney HS	Wisdom HS	Worthing HS	Yates HS	YMCPA
Arts	Art History	#>=3	31	11	12														0	0				0							1						7											
		# Exams	128	13	13															6	9				9						20						58											
		%>=3	24	85	92															0	0				0					5							12											
	Music Theory	#>=3	33	10								*								0	20							0				0				0						3						
		# Exams	72	10								4								6	20						6			6		8			12					6								
		%>=3	46	100								*								0	100						0			0		0				0					50							
	Studio Art: 2-D Design Portfolio	#>=3	48	*	*				9											1								*			3	3								7	21							
		# Exams	79	1	2				9											5								3			10	14							8	27								
		%>=3	61	*	*				100											20							*			30	21								88	78								
	Studio Art: 3-D Design Portfolio	#>=3	7																	5												0								*								
		# Exams	27																	12												12								3								
		%>=3	26																	42											0								*									
Studio Art: Drawing Portfolio	#>=3	28	4	8	*				1	3																	0			*									1	8		1						
	# Exams	76	8	8	1				5	12																	8				1							9	8		16							
	%>=3	37	50	100	*				20	25																	0			*								11	100		6							
Capstone	Research	#>=3	65			24		35																																	6							
		# Exams	101			36		53																																	12							
		%>=3	64			67		66																															50									
Seminar	#>=3	155			106		15	17		9																		*													3							5
	# Exams	285			154		35	17		17																		1													6						55	
	%>=3	54			69		43	100		53																		*													50						9	
English	English Language & Composition	#>=3	838	1	180	123	24	35	86		15	18	0	1	1	35	0	1	11	83	1	0	0	37	0	2	0	7	4	5	0	10	1	5	10	0	0	22	17	2	4	93			0	1	3	
		# Exams	3,203	30	221	132	62	169	89		65	73	7	74	45	260	14	96	70	92	7	53	7	396	11	33	45	96	36	25	24	93	11	26	42	7	40	40	145	61	118	264			39	50	35	
		%>=3	26	3	81	93	39	21	97		23	25	0	1	2	13	0	1	16	90	14	0	0	9	0	6	0	7	11	20	0	11	9	19	24	0	0	55	12	3	3	35			0	2	9	
English Literature & Composition	#>=3	512	1	136	117	28	9	25		16		0	0	0	7	0	4	3	46	0	1	0					0	3	3		0	5	0	5	2		0	14	12	2	2	61	0	6	0	2	2	
	# Exams	2,017	50	170	145	108	117	25		31		4	52	22	159	20	57	64	63	14	66	10					63	35	21		15	65	9	38	30		37	19	116	33	43	164	17	42	15	34	33	
	%>=3	25	2	80	81	26	8	100		52		0	0	0	4	0	7	5	73	0	2	0				0	0	9	14		0	8	0	13	7		0	74	10	6	5	37	0	14	0	6	6	

Source: 2016 College Board AP data file; retrieved October 5, 2016.

Notes: Table displays duplicated count of exams taken by students enrolled in grades 9--12 and by students with grade level not indicated (N=579). *Masked for # tested < 5.

Appendix C

AP Exam Participation and Performance by Exam and Campus, 9th - 12th grade, 2015–16

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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Notes: Table displays duplicated count of exams taken by students enrolled in grades 9--12 and by students with grade level not indicated (for three students). *Masked for # tested < 5.

Appendix C

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			Houston ISD	Austin HS	Bellaire HS	Carnegie HS	Challenge ECHS	Chavez HS	DeBakey HS	East ECHS	Eastwood Acad	Energy Inst HS	E-STEM Central HS	E-STEM West HS	Furr HS	Heights HS	Hou Acad, Intl.	Houston MCTC HS	HS for Law & Justice	HS Perf. Vis. Arts	Jones HS	Jordan HS	Kashmere HS	Lamar HS	Leland YMCPA	Liberty HS	Long Acad	Madison HS	Milby HS	N. Houston ECHS	North Forest HS	Northside HS	Scarborough HS	Sharpstown HS	Sharpstown Intl	South ECHS	Sterling HS	TX Conn. Acad.	Washington HS	Westbury HS	Westside HS	Wheatley HS	Wisdom HS	Worthing HS	Yates HS		
STEM	Biology	#>=3	373	0	84	21	11	3	140	4	6	4				8	0	0	0	52			0		9			0	2	1	0	0	1	1	2	4				4	2	13	1	0			
		# Exams	815	24	99	23	24	11	168	9	16	20				48	23	3	25	60			2		17			15	17	11	25	15	25	25	17	9				24	13	16	19	12			
		%>=3	46	0	85	91	46	27	83	44	38	20				17	0	0	0	87			0		53			0	12	9	0	0	4	4	12	44				17	15	81	5	0			
	Chemistry	#>=3	122	0	23	35	0	0	32	0	1	1			*	1	0	0	0						*		0	*	1	1	0	*	2			0	0	2	23	0	0	0			0		
		# Exams	524	7	31	48	12	14	35	6	8	12			4	97	14	39	13						2		8	2	22	17	14	3	8			10	9	6	25	5	8	22			23		
		%>=3	23	0	74	73	0	0	91	0	13	8			*	1	0	0	0						*		0	*	5	6	0	*	25			0	0	33	92	0	0	0			0		
	Calculus AB	#>=3	484	1	96	58	4	4	164	9	10		0	0	1	13	6	0	0	28			0	*	2	1	1	5	0	6	3	1	13	1	7	11		*	2	13	2	0	20	1	0	1	
		# Exams	1,035	14	111	61	25	35	181	13	12		5	52	6	56	8	18	19	34			10	4	88	10	5	6	7	16	11	11	34	7	13	30		4	5	29	16	19	35	11	9	5	
		%>=3	47	7	86	95	16	11	91	69	83		0	0	17	23	75	0	0	82			0	*	2	10	20	83	0	38	27	9	38	14	54	37		*	40	45	13	0	57	9	0	20	
	Calculus BC	#>=3	250		122	27	*	2	40		9													1				*			0	*			4		*				42						
		# Exams	305		130	27	1	6	40		12													9				1		14	3			9			1				52						
		%>=3	82		94	100	*	33	100		75													11			*		0	*			44		*						81						
	Computer Science A	#>=3	105		34	15		1	21		4					17	0								*												*	*		8							
		# Exams	156		37	20		8	21		6					32	14								1												1	3		10							
		%>=3	67		92	75		13	100		67					53	0							*													*	*		80							
	Environmental Science	#>=3	240	0	95	26		11	30	6		3	0	0	0	8	6	0	0		1	0	0	0	0						0	1	0	3				0	4		2	43				1	0
		# Exams	872	14	163	40		85	31	26		17	9	73	12	35	27	37		1	10	13			10	13						25	5	24	16			1	58		46	80			9	15	
		%>=3	28	0	58	65		13	97	23		18	0	0	0	23	22	0		100		0	0	0								0	20	0	19			0	7		4	54			11	0	
	Physics 1	#>=3	167	1	31	32	2	1	52	0	3	3		0	0	1	0	0	0	30			0	0	0	0		0	0		0	1	0	0				0	2	1	7	0	*				
		# Exams	1,489	60	90	132	113	63	55	7	51	66		31	5	160	6	14	25	80			6	10		10		28	80		129	67	12	31				5	21	95	10		14	1			
		%>=3	11	2	34	24	2	2	95	0	6	5		0	0	1	0	0	0	38			0	0		0		0	0		0	1	0	0				0	10	1	70	0	*				
	Physics 2	#>=3	53		2	5			24							0		*	15												1	0										5					
		# Exams	137		6	14			24							5		1	17												16	45										9					
		%>=3	39		33	36			100							0		*	88												6	0										56					
	Physics C - Electricity & Magnetism	#>=3	36		21	13										0																											2				
		# Exams	108		51	18										32																											7				
		%>=3	33		41	72										0																											29				
	Physics C - Mechanics	#>=3	78	1	51	20										1																										0	5				
		# Exams	154	12	65	21										33																										16	7				
		%>=3	51	8	78	95										3																										0	71				
	Statistics	#>=3	347	3	115	91	1		58	10	19					7	0	1	0						0			0		11	0	0		1	8			*	7		14						
		# Exams	646	9	128	120	17		58	20	25					50	10	25	30						7			7		30	8	19		26	26			1	15		15						
		%>=3	54	33	90	76	6		100	50	76					14	0	4	0						0			0		37	0	0		4	31			*	47		93						

Source: 2016 College Board AP data file; retrieved October 5, 2016

Notes: Table displays duplicated count of exams taken by students enrolled in grades 9–12 and by students with grade level not indicated (for three students). *Masked for # tested < 5.

Appendix C

AP Exam Participation and Performance by Exam and Campus, 9th - 12th grade, 2015–16

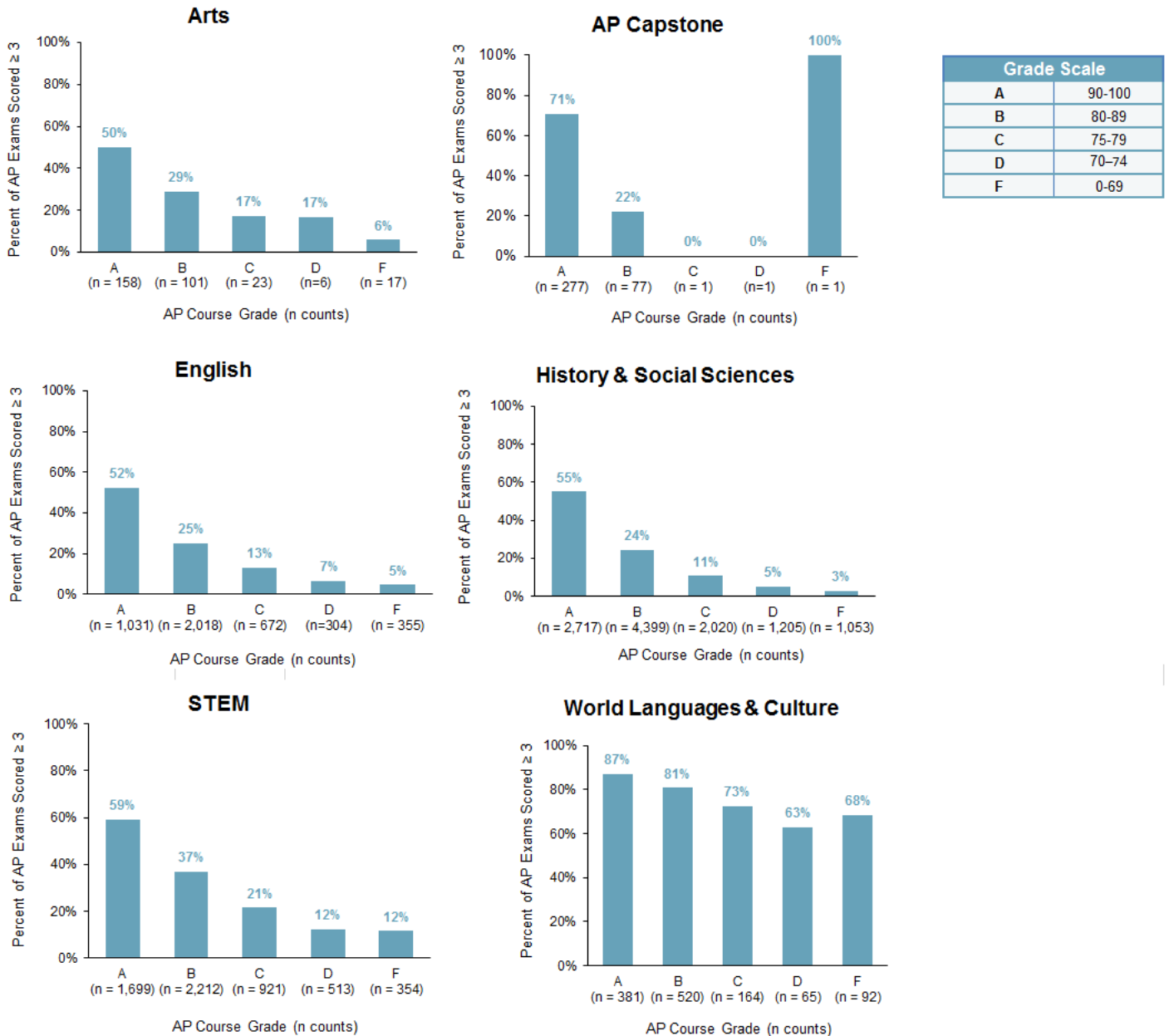
[illegible]

Source: 2016 College Board AP data file; retrieved October 5, 2016

Notes: Table displays duplicated count of exams taken by students enrolled in grades 9--12 and by students with grade level not indicated (for three students). *Masked for # tested < 5.

Appendix D

AP Exam Performance by AP Course Grade, 9th - 12th grade, 2015–16






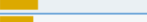



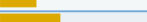
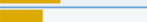
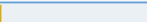

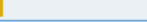




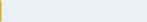
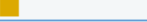
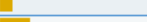

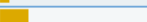
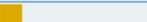



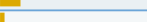
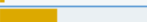

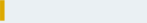

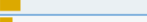


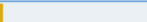

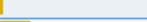





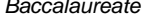


Course Grade Source: End of Year Chancery Grades data files, June 6, 2016

AP Exam Score Source: 2016 College Board AP data file; retrieved October 5, 2016

Notes: AP courses and exams are linked--these graphs display AP Exams for which a corresponding AP course grade exists. Graph displays a duplicated count of AP courses/exams taken by students enrolled in grades 9-12.

Appendix E

AP Course and Exam Performance by Campus, 9th - 12th grade, 2015-16

Campus	AP Course			Take both AP Course & Exam				
	# Take	# Pass	% Pass	# Take	% Take	# AP Exam Scores ≥ 3	% AP Exam Scores ≥ 3	
Austin HS	431	370	86	366	85	37		10
Bellaire HS	2,325	2,258	97	2,277	98	1,711		75
Carnegie Vanguard	1,905	1,800	94	1,845	97	1,330		72
Challenge HS	616	581	94	609	99	136		22
Chavez HS	1,347	1,196	89	1,219	90	243		20
Comm. Serv.	1	*	*	--	--	--	--	--
Northside HS	840	682	81	694	83	58		8
DeBakey HS	1,233	1,197	97	1,210	98	1,099		91
Challenge ECHS	186	181	97	185	99	40		22
Eastwood Acad	690	676	98	673	98	242		36
Energy Inst HS	396	347	88	380	96	98		26
E-STEM Central HS	152	144	95	108	71	1		1
E-STEM West HS	684	675	99	547	80	27		5
Furr HS	336	323	96	126	38	2		2
Hou Acad. Intl.	444	408	92	419	94	32		8
HS for Law & Justice	787	678	86	758	96	66		9
HS Perf. Vis. Arts	706	702	99	683	97	504		74
Jones HS	99	96	97	98	99	7		7
Jordan HS	314	278	89	268	85	1		0
Kashmere HS	86	81	94	73	85	1		1
Lamar HS	1,735	1,386	80	1,459	84	161		11
Wisdom HS	436	385	88	329	75	24		7
Long Acad	42	30	71	39	93	7		18
Madison HS	603	470	78	415	69	23		6
Milby HS	607	553	91	437	72	76		17
Mount Carmel Acad.	157	156	99	154	98	21		14
North Forest HS	135	115	85	73	54	0		0
N. Houston ECHS	580	516	89	539	93	66		12
Heights HS	1,787	1,508	84	1,496	84	174		12
Houston MSTC HS	1,004	765	76	798	79	100		13
Scarborough HS	243	181	74	165	68	4		2
Sharpstown HS	604	543	90	502	83	171		34
Sharpstown Intl	515	482	94	448	87	171		38
South ECHS	75	48	64	62	83	2		3
Sterling HS	507	388	77	388	77	27		7
Waltrip HS	969	864	89	853	88	106		12
Washington HS	411	318	77	349	85	27		8
Westbury HS	1,109	903	81	858	77	90		10
Westside HS	1,824	1,697	93	1,468	80	678		46
Wheatley HS	210	188	90	68	32	1		1
Worthing HS	162	123	76	118	73	0		0
Yates HS	220	197	90	174	79	4		2
Leland YMCPA	220	197	90	211	96	37		18
YWCPA	362	318	88	331	91	10		3
HISD	28,095	25,005	89	24,272	86	7,615		31

Course Grade Source: End of Year Chancery Grades data files, June 6, 2016; AP Exam Score Source: 2016 College Board AP data file; retrieved October 5, 2016

Notes: AP courses and exams are linked--these graphs display a duplicated count of AP Exams taken by students enrolled in grades 9-12 for which a corresponding AP course grade exists. *Masked # students < 5. Bellaire and Lamar High Schools offer the International Baccalaureate (IB) Program in addition to Advanced Placement (AP). -- denotes no data available.

Appendix F

AP Exam Participation and Performance by Exam and Campus, 8th grade, 2015–16

Campus	Chinese Language & Culture			Spanish Language & Culture			Total		
	# Exams	# ≥ 3	% ≥ 3	# Exams	# ≥ 3	% ≥ 3	# Exams	# ≥ 3	% ≥ 3
Burbank MS				127	116	91	127	116	91
Clifton MS				25	18	72	25	18	72
Hamilton MS				35	23	66	35	23	66
Hogg MS				24	17	71	24	17	71
Lanier MS	10	10	100	25	25	100	35	35	100
Long Academy				38	29	76	38	29	76
Meyerland MS				96	82	85	96	82	85
Pershing MS				19	19	100	19	19	100
Pin Oak MS				34	34	100	34	34	100
Revere MS				10	9	90	10	9	90
Rusk School				31	27	87	31	27	87
Westbriar MS				25	25	100	25	25	100
Wharton Academy				18	18	100	18	18	100
HISD Totals	10	10	100	507	442	87	517	452	87

Source: 2016 College Board AP data file; retrieved October 5, 2016

Notes: Table displays a duplicated count of exams taken by students enrolled in 8th grade and grade unknown for middle schools (N=9). *Masked # tested < 5.

Appendix G-1

Advanced Placement Award Levels Available to HISD Students

Award	Criteria
AP Scholar	Granted to students who receive scores of 3 or higher on three or more AP Exams.
AP Scholar with Honor	Granted to students who receive an average score of at least 3.25 on all AP Exams taken, and scores of 3 or higher on four or more of these exams.
AP Scholar with Distinction	Granted to students who receive an average score of at least 3.5 on all AP Exams taken, <u>and</u> scores of 3 or higher on five or more of these exams.
State AP Scholar *	Granted to the one male and one female student in each U.S. state and the District of Columbia with scores of 3 or higher on the greatest number of AP Exams, and then the highest average score (at least 3.5) on all AP Exams taken.
National AP Scholar	Granted to students in the United States who receive an average score of at least 4 on all AP Exams taken, <u>and</u> scores of 4 or higher on eight or more of these exams.
AP International Diploma	Granted to students who receive a 3 or higher on five or more exams. Exams taken multiple times only count once. The highest score will be used for award calculation. Students attending a school within the U.S. must indicate on their AP exam answer sheet that their scores will be sent to a university outside the U.S. Exams must fulfill the following content areas: 1). Two AP exams from two world languages and culture courses. The language must be different in each course; or 2). Two AP exams from one world language and culture course and one English course.
AP Seminar and Research Certificate	Granted to students who earn scores of 3 or higher in both AP Seminar and AP Research.
AP Capstone Diploma	Granted to students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP exams of their choosing.

Source: College Board. AP Scholar Awards. Retrieved from <http://professionals.collegeboard.com/k-12/awards/ap-scholar>; AP International Diploma, College Board. AP Awards. Retrieved from http://apcentral.collegeboard.com/apc/public/score_reports_data/awards/232781.html

Note: * State AP Scholar Awards were not available at the time of publication

Appendix G-2

AP Scholar Awards Earned by Campus, 2014–15 and 2015–16

School	2014–15						2015–16						Change			
	Scholar	Honor	Distinction	National	Total	School % of Total	Scholar	Honor	Distinction	National	International Diploma	AP Seminar & Research Certificate	Capstone Diploma	Total	School % of Total	Total
Austin HS	2	0	0	0	2	0	3	0	0	0	0	0	0	3	0	1
Bellaire HS	155	68	188	65	476	29	160	75	199	79	2	0	0	515	27	39
Carnegie HS	146	37	119	39	341	21	166	53	117	36	1	0	18	391	20	50
Challenge HS	32	6	7		45	3	43	10	4	0	0	0	0	57	3	12
Chavez HS	43	5	4	1	53	3	39	2	4	0	0	0	0	45	2	-8
Northside HS	9	0	0	0	9	1	9	0	0	0	0	0	0	9	0	0
DeBaakey HS	76	31	109	42	258	16	70	42	129	47	0	2	29	319	17	61
East Early College HS	7	0	1	0	8	0	10	4	1	0	0	0	0	15	1	7
Eastwood Academy	37	3	14	1	55	3	34	12	8	2	0	0	0	56	3	1
Energized STEM HS SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energized STEM HS SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Inst HS	0	0	0	0	0	0	15	0	3	0	0	0	0	18	1	18
Furr HS	1	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0
Houston Acad. Intl.	3	0	2	0	5	0	5	0	0	0	0	0	0	5	0	0
Houston MST	5	2	0	0	7	0	8	0	0	0	0	0	0	8	0	1
Jones HS	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1
Jordan HS	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	-3
Kashmere HS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lamar HS	25	3	4	0	32	2	16	5	4	0	0	0	0	25	1	-7
HS for Law & Justice	4	2	0	0	6	0	4	0	0	0	0	0	0	4	0	-2
Wisdom HS	7	1	1	0	9	1	6	0	0	0	0	0	0	6	0	-3
Leland YMCPA	2	0	1	0	3	0	2	1	0	0	0	0	0	3	0	0
Liberty HS	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	-2
Long Academy	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1
Madison HS	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1
Milby HS	9	0	1	0	10	1	5	1	1	0	0	0	0	7	0	-3
Mount Carmel Academy	3	0	0	0	3	0	3	1	0	0	0	0	0	4	0	1
North Forest HS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Houston Early College HS	5	1	0	0	6	0	9	2	1	0	0	0	0	12	1	6
Perf Vis Arts HS	30	21	39	5	95	6	46	25	44	14	0	0	0	129	7	34
REACH HS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heights HS	13	2	1	0	16	1	33	2	5	0	0	0	0	40	2	24
Scarborough HS	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	-1
Sharpstown HS	6	0	2	0	8	0	12	1	1	0	0	0	0	14	1	6
Sharpstown International	9	1	2	0	12	1	20	2	1	0	0	0	0	23	1	11
South EC HS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sterling HS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas Connections Acad.	2	1	2	0	5	0	11	1	2	0	0	0	0	14	1	9
Waltrip HS	11	1	3	0	15	1	13	3	0	0	0	0	0	16	1	1
Washington HS	3		0	0	3	0	2	0	2	0	0	0	0	4	0	1
Westbury HS	3	1	0	0	4	0	4	1	0	0	0	0	0	5	0	1
Westside HS	96	25	29	5	155	9	93	21	42	5	0	0	4	165	9	10
Wheatley HS	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	-1
Worthing HS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yates HS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Young Women's College Prep	1	0	0	0	1	0	2	0	0	0	0	0	0	2	0	1
HISD Totals	750	211	530	159	1,650		847	264	568	183	3	2	51	1,918		268

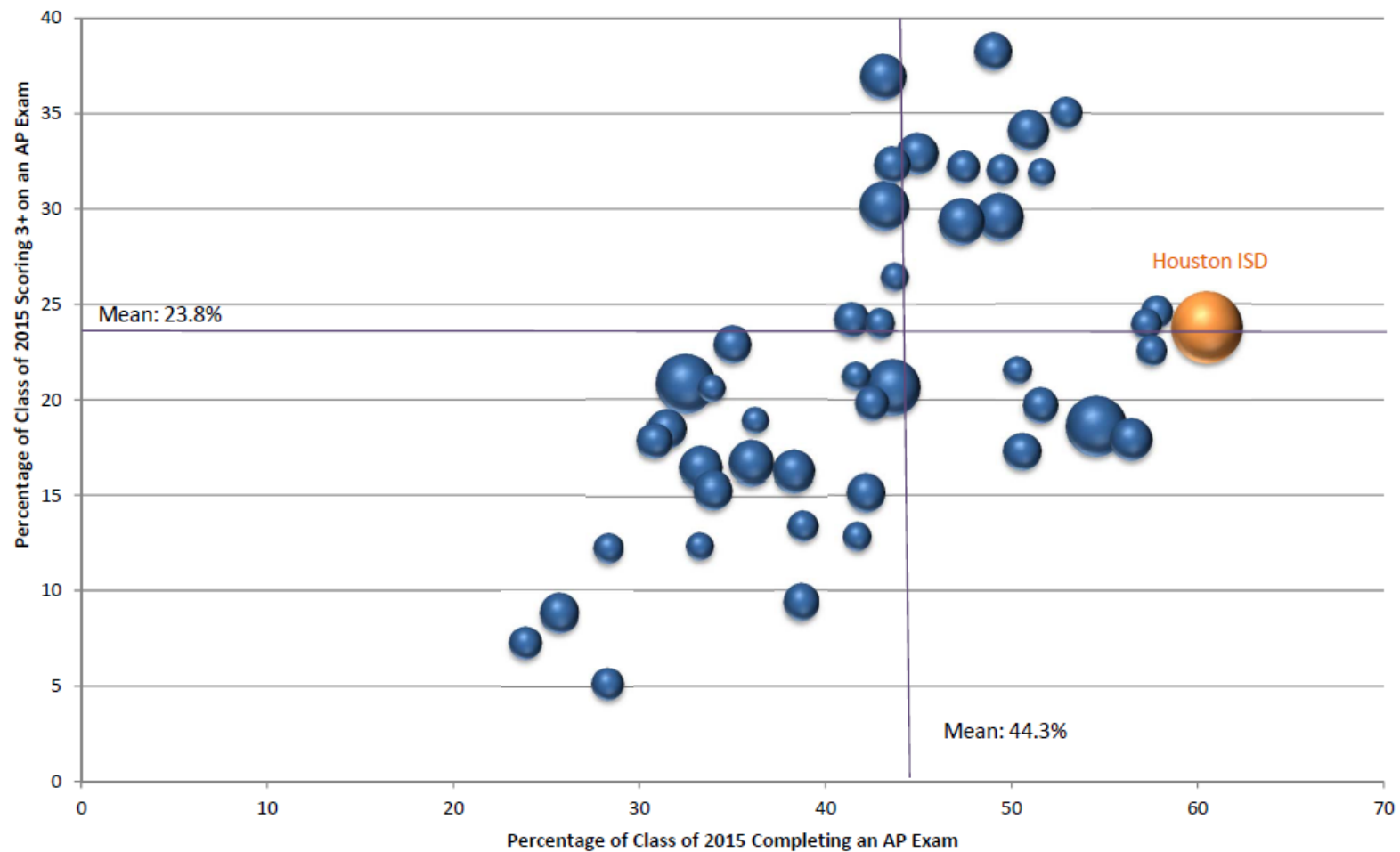
2016 Source: 2016 College Board AP data file; retrieved October 5, 2016

2015 Source: HISD Research and Accountability Department, 2015 Advanced Placement (AP) Results

Note: State AP Scholar Awards were not available at the time of publication. Qualifying AP Exams are a cumulative count - not an annual count.

Appendix H

AP Performance and Participation
Class of 2015
Texas 50 Largest School Districts



Source: Jill Schott, College Board, August 12, 2016

HISD Research and Accountability

Appendix G-2