

MEMORANDUM

March 27, 2023

TO: Board Members

FROM: Millard L. House II
Superintendent of Schools

SUBJECT: **SAT RESULTS: CLASS OF 2022**

CONTACT: Allison Matney, Ed.D., 713-556-6700

The SAT results for the graduating Class of 2022 are provided in this report. In previous years, the most recent SAT scores were shown for students who self-reported a graduation date for that year, following the way that the College Board reports results. However, for the district's Class of 2022, the highest ERW and mathematics scores over the past four years for students who graduated according to the Fall PEIMS Student Leaver file are shown as a result of consulting with members from the district's Postsecondary department. Due to this change in methodology, some caution should be used when comparing 2022 results with previous years' results. Results for the state and total group continue to be the students' most recent results.

Key findings include:

- The number of students who took the SAT from the Class of 2022 is 8,662. This represents 79 percent of the entire senior class, an increase of 18 percentage points from the Class of 2021 but a decrease of 14 percentage points from the Class of 2020.
- Using the highest ERW and mathematics scores over the past four years, the Class of 2022 scored an average composite score of 966, an average ERW score of 490, and an average mathematics score of 476.
- The district's Asian and White students continue to outperform the district's African American and Hispanic students, as well as Asian and White students from the state and total group.

Administrative Response

The Houston Independent School District remains committed to providing all students free access to the SAT assessment and a high-quality education that prepares students to be successful in college and careers. The data reflected in this report demonstrate the continued impact of COVID-19 on equitable access to opportunities in the district. The SAT school day, administered in the spring of 11th grade, ensures all our students have an opportunity to demonstrate college-readiness. However, participation has decreased as a direct result of the disruption to in-person learning caused by the COVID-19 pandemic. The Class of 2021 missed their originally scheduled SAT school day assessment in the spring of 2020, and the Class of 2022 had the option of remote learning during the spring of their 11th grade year (2021).

This resulted in a significant decrease in SAT participation when compared with pre-COVID participation rates. Starting with the Class of 2023, participation rates should return to pre-COVID levels as the district returned to in-person learning only during the 2021–2022 school year. Although participation rates are expected to bounce back, a decrease in math college readiness on the SAT is anticipated because of the pandemic's prolonged effects. The district

has begun the strategic planning process to both minimize this impact and increase the number of students demonstrating college readiness on the SAT prior to graduation.

To grow the number of students who meet criteria on the SAT, the district is collaborating across multiple departments to develop short- and long-term strategies. To address long-term planning and growth, high school campuses are participating in a multi-department data talk that evaluates the success of various college, career, and military readiness (CCMR) indicators. These conversations are essential given that CCMR success is a culmination of pre-kindergarten through 12th grade educational strategies and campuses must build in plans for students much earlier than just 11th grade. Also, campuses continue to expand Pre-AP offerings while encouraging enrollment in earlier grade levels. This requires a commitment to teacher training and an understanding of the long-term investment needed to prepare students for success on SAT as an upperclassman. Administrators will continue to participate in T-TESS calibration walks to ensure high-quality teaching and learning are occurring not just in high school core subjects but also in middle schools. Lastly, to minimize the nation-wide mathematics learning loss on SAT math scores, the district is ensuring access to high-quality instructional materials in mathematics. The unification of the scope and sequence through the introduction of Carnegie and Eureka curriculums ensures that our high-mobility students can enroll in any HISD campus and continue to receive the grade-level appropriate content across campuses.

Additionally, these campus-based data conversations focus on the immediate need for students to demonstrate college readiness on the SAT. Strategies include prioritizing the use of Khan Academy at school and at home, providing vital performance insights to staff as they provide targeted support. Also, the CCMR and TSIA analyzers enable campuses to target students for opportunities based on prior test performance. Many campuses build in intervention times to the school day that create space for staff and students to work together toward college readiness goals. Moreover, campuses have access to tutors from the University of Houston through the ACES program, which provides direct support in STEM subjects such as mathematics. These strategies provide immediate support for students struggling as a result of the COVID disruption.

Should you have any further questions, please contact Allison Matney in Research and Accountability at (713) 556-6700.

 MLH

Attachment

cc: Superintendent's Direct Reports
Assistant Superintendents
School Support Officers
High School Principals
Connie Smith
David Johnston

HOUSTON INDEPENDENT SCHOOL DISTRICT



RESEARCH

Educational Program Report

**SAT RESULTS
CLASS OF 2022**



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SAT Results: Class of 2022

Executive Summary

Program Description

The SAT is a college admissions exam that assesses student reasoning based on knowledge and skills developed in high school coursework. Colleges and universities use SAT scores to influence admissions decisions, recruit students, and predict performance in college courses.

In March 2016, the College Board administered the first redesigned SAT exam that included two sections: Evidence-Based Reading and Writing (ERW) and mathematics. Due to the COVID-19 pandemic, the district's SAT School Day in spring 2020 was canceled, which likely lowered the SAT participation rate for students in the Class of 2021.

Starting with the Class of 2022, this report's methodology was updated to reflect students reported as graduates in the Fall PEIMS submission. The highest ERW and mathematics scores over the prior four years are reported for each student. This methodology accurately reflects HISD annual graduates and aligns with state and federal accountability. For classes that graduated prior to 2022, the most recent results are shown for students who self-reported their graduation date for that year.

Highlights

- The number of students who took the SAT from the Class of 2022 is 8,662. This represents 79 percent of the entire senior class, an increase of 18 percentage points from the Class of 2021 but a decrease of 14 percentage points from the Class of 2020.
- Using the highest ERW and mathematics scores over the past four years, the Class of 2022 scored an average composite score of 966, an average ERW score of 490, and an average mathematics score of 476.
- The district's Asian and White students continue to outperform the district's African American and Hispanic students, as well as Asian and White students from the state and total group.

Introduction

The SAT is a college admissions exam that assesses student reasoning based on knowledge and skills developed in high school coursework. Colleges and universities use SAT scores to influence admissions decisions, recruit students, and predict performance in college courses.

In March 2016, the College Board administered the first redesigned SAT exam that included two sections: Evidence-Based Reading and Writing (ERW) and mathematics. Each subject is scored on a scale that ranges from a minimum of 200 to a maximum of 800. The highest composite score a student can earn is 1600.

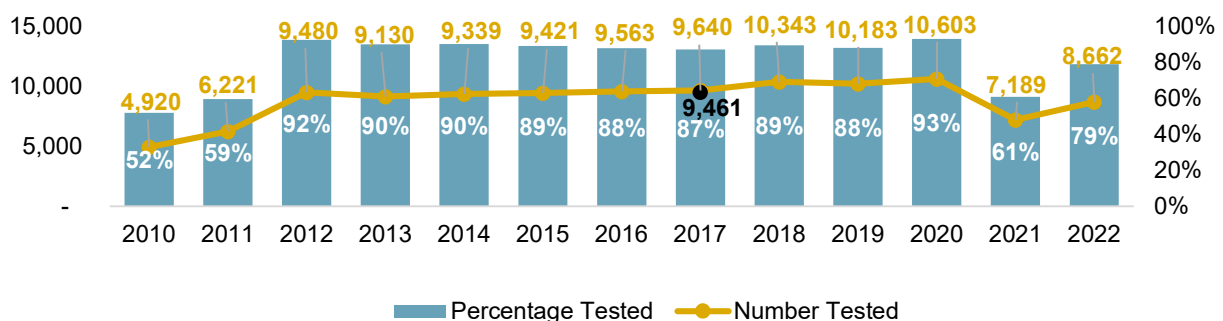
Starting with the Class of 2022, this report's methodology was updated to reflect students reported as graduates in the Fall PEIMS submission. The highest ERW and mathematics scores over the prior four years are reported for each student. This methodology accurately reflects HISD annual graduates and aligns with state and federal accountability. For classes that graduated prior to 2022, the most recent results are shown for students who self-reported their graduation date for that year. Comparisons are made to the state and "total group" which includes all national and international testers. The most recent results are shown for students from the state and total group.

Results

SAT Participation

Beginning in spring 2011, Houston ISD provided an opportunity for students to take the SAT during a school day at their home campus, at no cost to the student. This increased SAT participation rates across the district by reducing the financial, logistical, and emotional burden on students and their families. During the 2019–2020 school year, a second SAT School Day was offered in October 2019 in addition to the regular SAT school day in the spring. Due to the COVID-19 pandemic, the district's SAT School Day in Spring 2020 was canceled, which likely lowered the SAT participation rate for students in the Class of 2021. An SAT School Day was held in October 2020, but participation was relatively low due to caution related to the pandemic and due to colleges suspending SAT requirements. **Figure 1** illustrates district-wide SAT participation since 2010. For the Class of 2022, 8,662 students took the SAT, representing 79 percent of the senior class.

Figure 1. HISD SAT Exam Participation, Classes of 2010–2022

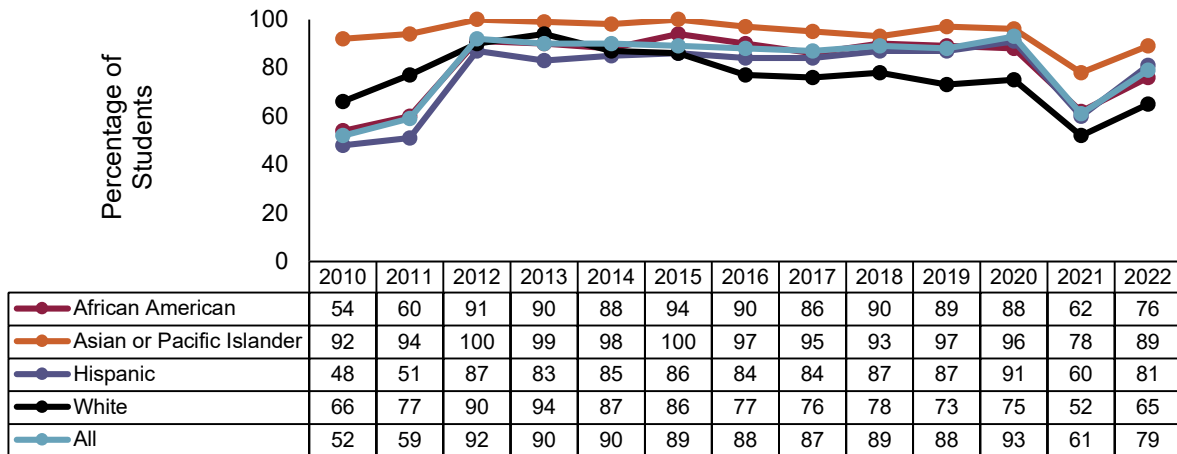


Sources: 2019–2022 SAT Data from Cognos, 12/2/2022; SAT Suite of Assessments Report: Houston Independent School District, 2010–2021; PEIMS Fall Snapshot, 2009–2021; PEIMS Student Leaver File, 12/8/2022

Notes: Student participation for 2017 includes those who took both versions of the SAT, as shown with the colors blue and yellow. The number of new version testers in 2017 is shown in black.

Figure 2 shows the HISD SAT participation rate by race/ethnicity. Participation rates for each group were determined by dividing the number of students within the group who took the SAT by the number of seniors within the group.

Figure 2. HISD SAT Participation Rate by Race/Ethnicity, Classes of 2010–2022



Sources: 2019–2022 SAT Data from Cognos, 12/2/2022; SAT data file, 2021; SAT Suite of Assessments Report: Houston Independent School District, 2010–2020; PEIMS Fall Snapshot, 2009–2021; PEIMS Student Leaver File, 12/8/2022

Notes: Participation for 2017 includes those who took both versions of the SAT. Ethnicities for 2010–2020 are self-reported, ethnicities for 2021 are from the Student Information System, and ethnicities for 2022 are from PEIMS.

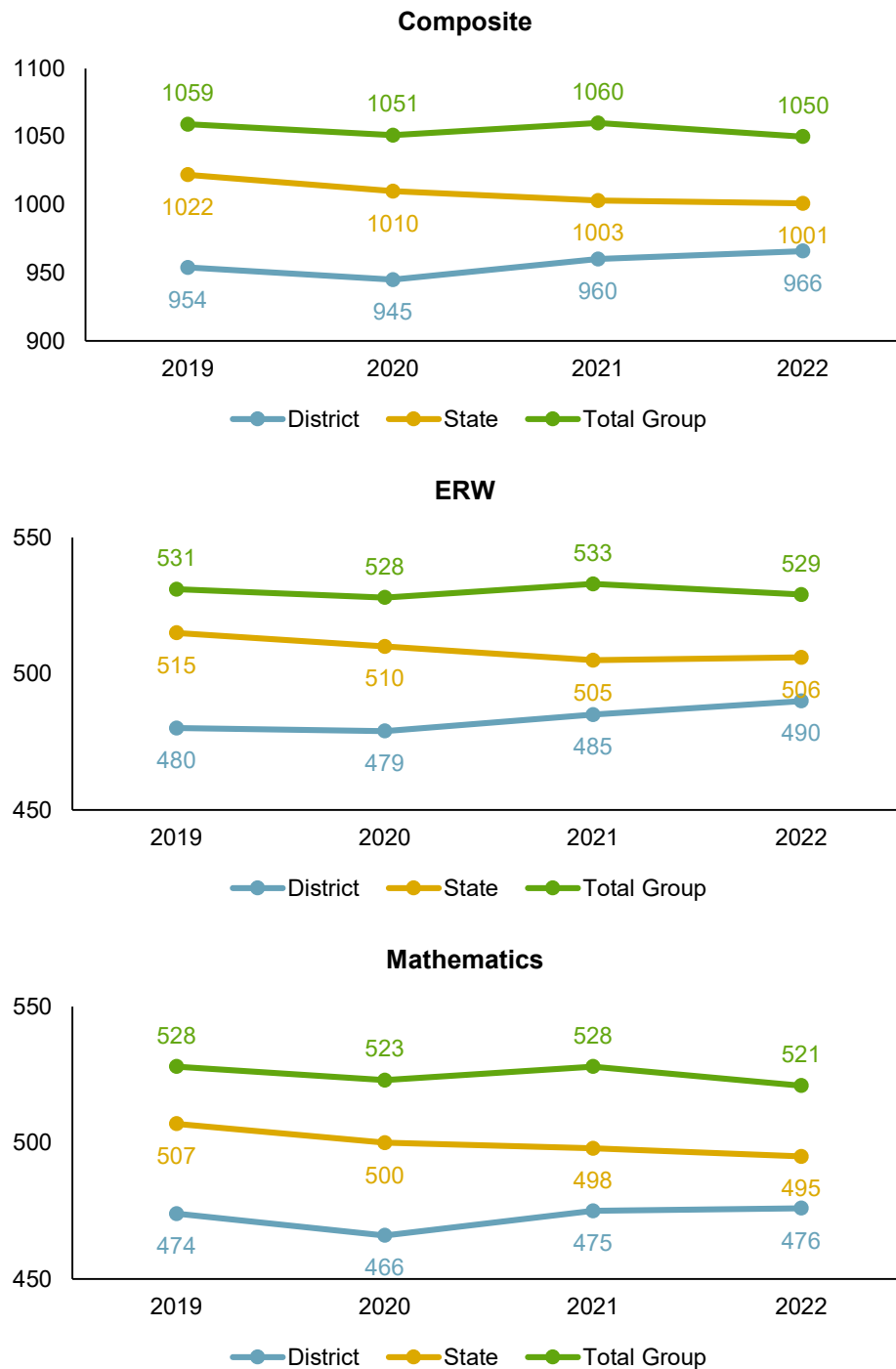
- From the Classes of 2012 to 2020, the percentage tested dropped for all race/ethnicity groups shown except for the Hispanic group, which increased its participation rate to 91 percent (Figure 2).
- In 2022, the participation increased across all groups from 2021 but not to the pre-pandemic levels of 2019 or 2020 (Figure 2).

SAT Performance

Figure 3 (p. 4) shows the average score by subject for the district's, state's, and total group's Classes of 2019–2022.

- Using the highest ERW and mathematics scores over the past four years, the Class of 2022 scored an average composite score of 966, an average ERW score of 490, and an average mathematics score of 476.
- Average SAT scores among HISD graduation classes are lower than those of students in Texas and the total group in both ERW and mathematics.

Figure 3. Average SAT Scores of District, State, and Total Group Students, Classes of 2019–2022

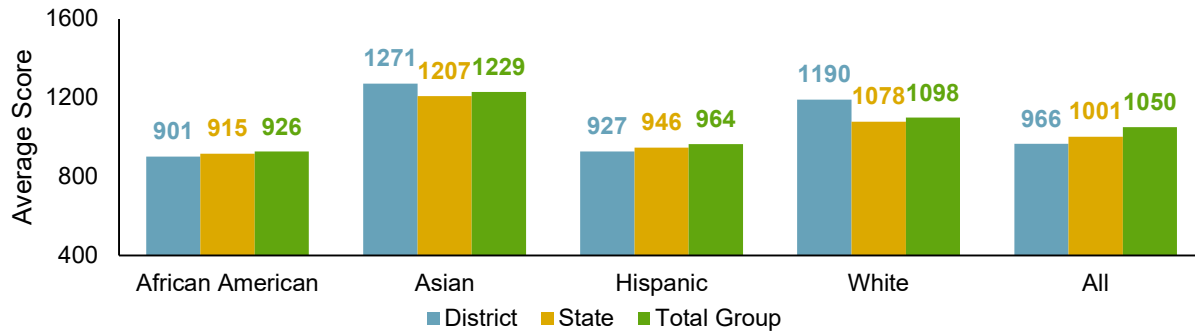


Sources: 2019–2022 SAT Data from Cognos, 12/2/2022; PEIMS Student Leaver File, 12/8/2022; SAT Suite of Assessments Report: Houston Independent School District, 2019–2021; SAT Suite of Assessments Report: State, 2019–2022; SAT Suite of Assessments Report: Total Group, 2019–2022

Notes: For the district's Class of 2022, the highest ERW and mathematics scores over the past four years are shown. All other data points show the most recent results. Total group includes international test takers.

Figure 4 shows the average composite score by race/ethnicity for the Class of 2022 for the district, state, and total group. Overall, African American and Hispanic students from the district in the Class of 2022 scored lower composite scores compared to their peers from the state and total group. Asian and White students in the district exceeded state and total group average performance.

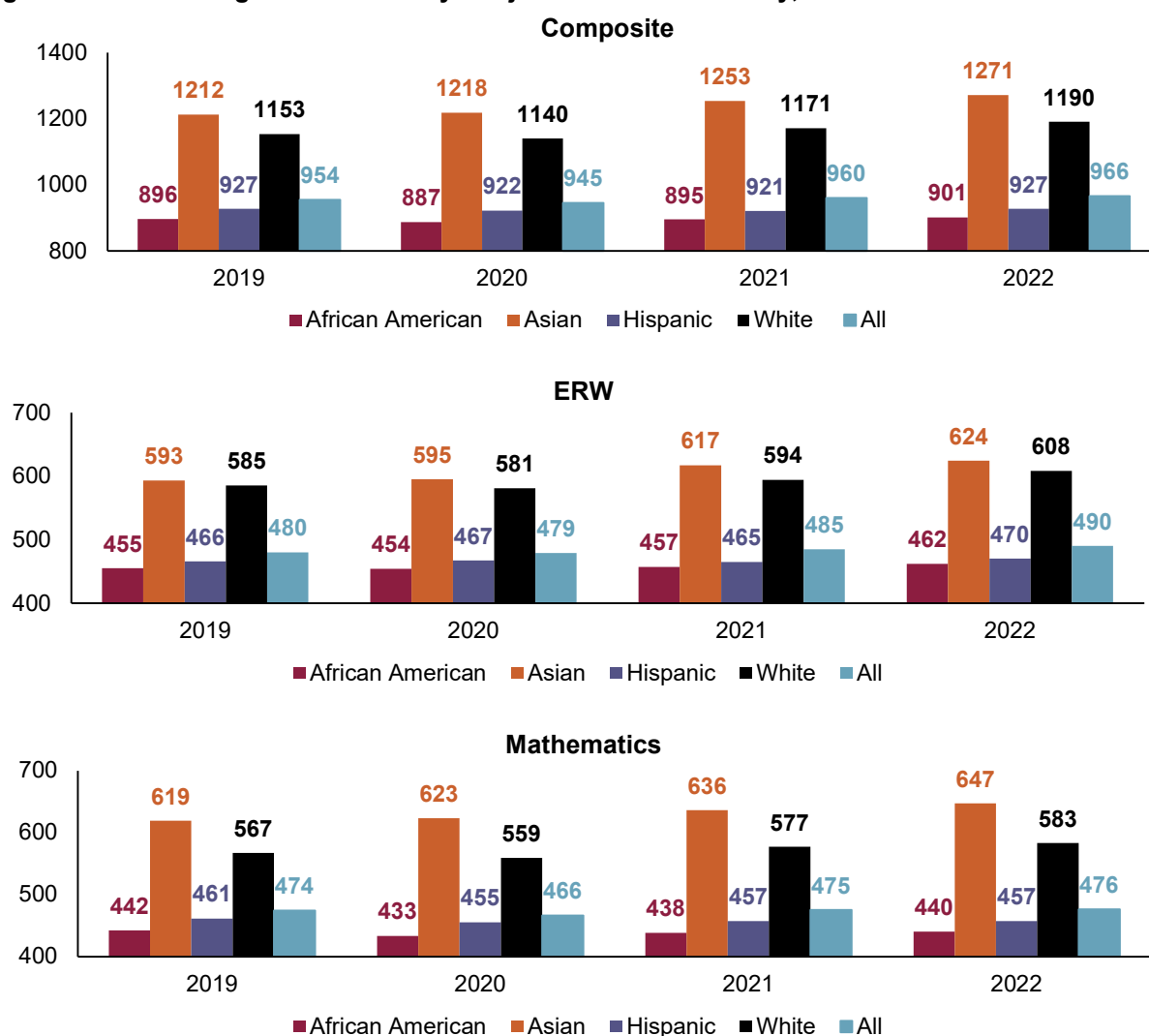
Figure 4. Average SAT Composite Score by Race/Ethnicity of District, State, and Total Group Students, Class of 2022



Sources: 2019–2022 SAT Data from Cognos, 12/2/2022; PEIMS Student Leaver File, 12/8/2022; SAT Suite of Assessments Report: State, 2022; SAT Suite of Assessments Report: Total Group, 2022; PEIMS Fall Snapshot, 2021

Note: For the district's Class of 2022, the highest ERW and mathematics scores over the past four years are shown. For the state and total group, the most recent results are shown. Total group includes international test takers. Ethnicities from the state and total group are self-reported while the ethnicities from the district are from PEIMS.

Figure 5 (p. 6) shows the average SAT scores by subject and student race/ethnicity group for HISD's Classes of 2019–2022. Using the highest ERW and mathematics scores over the past four years, the Class of 2022's Asian students scored an average composite score of 1271, White students scored 1190, Hispanic students scored 927, and African American students scored 901.

Figure 5. HISD Average SAT Scores by Subject and Race/Ethnicity, Classes of 2019–2022

Sources: 2019–2022 SAT Data from Cognos, 12/2/2022; PEIMS Student Leaver File, 12/8/2022; SAT data file, 2021; SAT Suite of Assessments Report: Houston Independent School District, 2019–2020; PEIMS Fall Snapshot, 2021

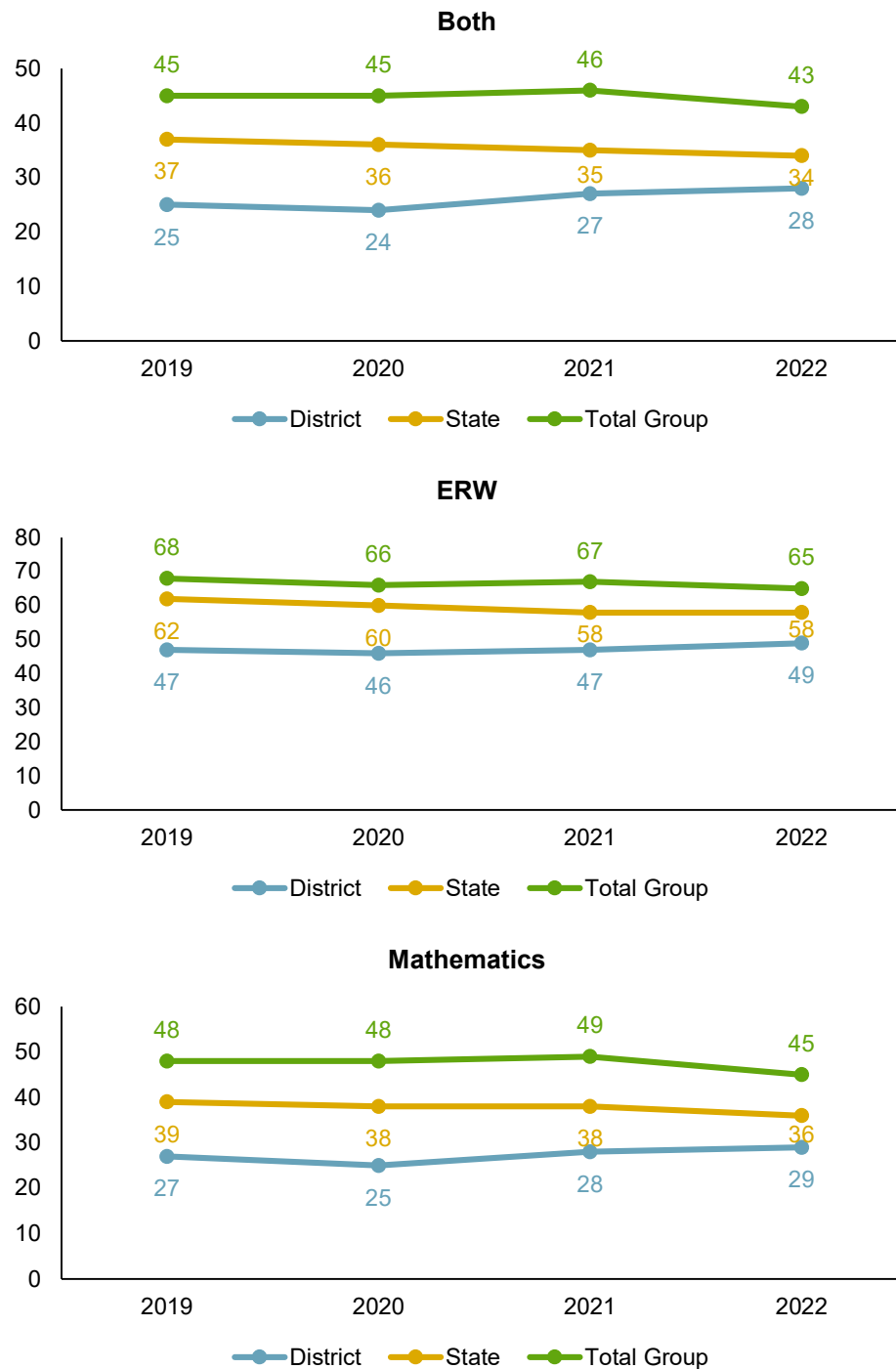
Notes: Ethnicities for 2019–2020 are self-reported, ethnicities for 2021 are from the Student Information System, and ethnicities for 2022 are from PEIMS. For the Class of 2022, the highest ERW and mathematics scores over the past four years are shown. In prior years, the most recent results are shown.

SAT College Readiness Benchmarks

The College Board sets benchmark scores to predict students' chance of success in college. According to the College Board, meeting the SAT Math benchmark (530) is associated with a 75 percent chance of earning at least a C in first-semester, college-level courses in algebra, statistics, precalculus, or calculus. Meeting the SAT ERW benchmark (480) is associated with a 75 percent chance of earning at least a C in first-semester, college-level courses in history, literature, social science, or writing.

Figure 6 (p. 7) shows the percentage of students in the Classes of 2019–2022, from the district, state, and total group, who met college-ready benchmarks in ERW, mathematics, and both. Using the highest ERW and mathematics scores over the past four years, 28 percent of the district's Class of 2022 met both benchmarks. This is still lower than the percentage of the state and total group who met both benchmarks.

Figure 6. Percentage of District, State, and Total Group Students Meeting College-Ready Benchmarks, Classes of 2019–2022

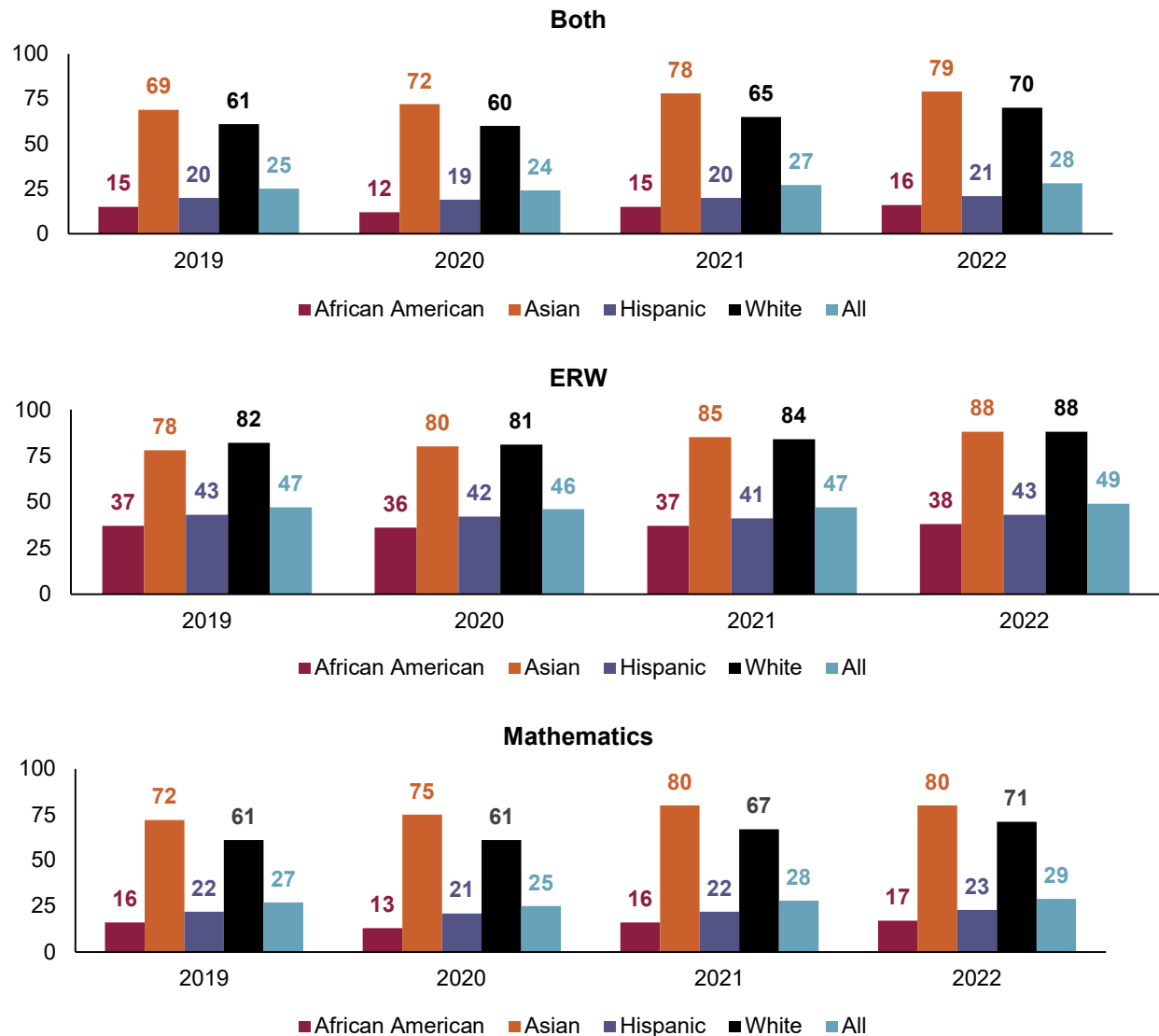


Sources: 2019–2022 SAT Data from Cognos, 12/2/2022; PEIMS Student Leaver File, 12/8/2022; SAT Suite of Assessments Report: Houston Independent School District, 2019–2021; SAT Suite of Assessments Report: State, 2019–2022; SAT Suite of Assessments Report: Total Group, 2019–2022

Note: For the district's Class of 2022, the highest ERW and mathematics scores over the past four years are shown. In prior years, the most recent results are shown.

Figure 7 shows the percentage of students who met the college-ready benchmarks by subject and race/ethnicity for HISD's Classes of 2019–2022. Using the highest ERW and mathematics scores over the past four years, 79 percent of the district's Class of 2022 Asian students, 70 percent of the White students, 21 percent of the Hispanic students, and 16 percent of the African American students met both benchmarks.

Figure 7. HISD Percentage of Students Meeting College-Ready Benchmarks by Race/Ethnicity, Classes of 2019–2022



Sources: 2019–2022 SAT Data from Cognos, 12/2/2022; PEIMS Student Leaver File, 12/8/2022; SAT data file, 2021; SAT Suite of Assessments Report: Houston Independent School District, 2019–2020; PEIMS Fall Snapshot, 2021

Notes: For the Class of 2022, the highest ERW and mathematics scores over the past four years are shown. In prior years, the most recent results are shown. Ethnicities for 2019–2020 are self-reported, ethnicities for 2021 are from the Student Information System, and ethnicities for 2022 are from PEIMS.

SAT Participation and Performance by Campus

Table 1 (p. 10) shows the number of students tested, average SAT composite, and the changes from the Classes of 2021 and 2022 by campus.

- A total of 45 campuses had students from the Class of 2022 take the SAT.
- Campuses with more than 500 students who took the SAT from the Class of 2022 are Bellaire HS (n=517) and Lamar HS (n=560). Five campuses had fewer than 50 students from the Class of 2022 take the SAT.
- For the Class of 2022, 18 campuses had average composite scores greater than or equal to the district average of 966. The campuses with the highest average composite scores are Carnegie High School (1374), DeBakey High School (1280), and Kinder HSPVA (1234).

Table 2 (p. 11) shows the scores for ERW, mathematics, and changes in scores from the Classes of 2021 to 2022. For the Class of 2022, 19 campuses had average ERW scores greater than or equal to the district average of 490, and 18 campuses had average mathematics scores greater than or equal to the district average of 476.

Table 1. Number Tested, Average SAT Scores by Campus, and Percentage Met Benchmark, Classes of 2021 and 2022

Campus	Number Tested			Average Composite Score			% Met Both ERW and Mathematics Benchmarks		
	2021	2022	Change	2021	2022	Change	2021	2022	Change
Austin HS	216	233	17	849	862	13	4	7	3
Bellaire HS	484	517	33	1162	1141	-21	60	56	-4
Carnegie HS	147	248	101	1355	1374	19	97	99	2
Challenge EC HS	100	100	0	1115	1098	-17	62	59	-3
Chavez HS	354	472	118	904	926	22	17	22	5
DeBakey HS	169	190	21	1312	1280	-32	93	90	-3
East EC HS	95	112	17	1031	1071	40	32	50	18
Eastwood Acad HS	95	96	1	1078	1095	17	55	61	6
Energy Inst HS	144	162	18	1039	1057	18	38	47	9
E-STEM Southeast HS	71	103	32	885	899	14	15	10	-5
Furr HS	160	169	9	832	830	-2	2	4	2
Heights HS	293	470	177	987	988	1	26	29	3
HAIS HS	48	87	39	1104	1066	-38	58	46	-12
Houston MSTC HS	334	405	71	825	836	11	5	3	-2
HSLJ	58	99	41	963	950	-13	26	14	-12
Jones HS	54	53	-1	900	912	12	9	21	12
Kashmere HS	111	104	-7	805	843	38	3	5	2
Kinder HSPVA	144	161	17	1243	1234	-9	76	78	2
Lamar HS	440	560	120	1051	1035	-16	44	39	-5
Leland YMCPA	38	44	6	1042	996	-46	37	20	-17
Liberty HS	14	16	2	824	812	-12	0	6	6
Long Acad	18	28	10	1117	939	-178	50	18	-32
Madison HS	184	273	89	821	838	17	3	4	1
Middle College HS - Fraga	24	21	-3	870	866	-4	8	5	-3
Middle College HS - Gulfon	18	13	-5	823	841	18	17	8	-9
Milby HS	412	419	7	868	851	-17	10	9	-1
Mount Carmel Acad HS	80	76	-4	943	919	-24	18	18	0
North Forest HS	90	158	68	805	817	12	8	4	-4
North Houston EC HS	100	133	33	1075	1022	-53	48	42	-6
Northside HS	163	243	80	893	911	18	14	17	3
Scarborough HS	102	101	-1	858	855	-3	5	12	7
Sharpstown HS	99	141	42	824	856	32	4	5	1
Sharpstown Intl	57	152	95	1008	1008	0	33	36	3
South EC HS	84	86	2	980	982	2	24	36	12
Sterling HS	249	232	-17	801	861	60	3	6	3
TCAH	174	186	12	1082	1072	-10	52	46	-6
Waltrip HS	343	376	33	892	905	13	12	16	4
Washington HS	72	109	37	829	852	23	10	6	-4
Westbury HS	419	420	1	875	871	-4	9	11	2
Westside HS	386	455	69	1058	1064	6	45	45	0
Wheatley HS	73	96	23	806	819	13	1	2	1
Wisdom HS	241	254	13	830	816	-14	7	4	-3
Worthing HS	112	115	3	796	815	19	6	3	-3
Yates HS	92	113	21	827	772	-55	7	2	-5
YWCPA	26	57	31	1066	1047	-19	31	44	13
HISD Totals	7,189	8,662	1,473	960	966	6	27	28	1

Sources: 2019–2022 SAT Data from Cognos, 12/2/2022; PEIMS Student Leaver File, 12/8/2022; SAT data file, 2021

Notes: For the Class of 2022, the highest ERW and mathematics scores over the past four years are shown. For the Class of 2021, the most recent results are shown.

*Fewer than 5 students tested

--No students tested

Table 2. Average SAT Subject Scores by Campus, Classes of 2021 and 2022

Campus	Average ERW Score			Average Mathematics Score		
	2021	2022	Change	2021	2022	Change
Austin HS	425	435	10	424	427	3
Bellaire HS	582	576	-6	580	565	-15
Carnegie HS	664	683	19	691	692	1
Challenge EC HS	572	565	-7	543	533	-10
Chavez HS	454	465	11	450	462	12
DeBaKey HS	649	633	-16	664	647	-17
East EC HS	521	538	17	510	532	22
Eastwood Acad HS	537	546	9	540	549	9
Energy Inst HS	526	535	9	513	522	9
E-STEM Southeast HS	445	451	6	440	448	8
Furr HS	425	423	-2	408	408	0
Heights HS	504	507	3	483	480	-3
HAIS HS	570	551	-19	534	515	-19
Houston MSTC HS	417	424	7	409	412	3
HSLJ	502	493	-9	462	457	-5
Jones HS	452	459	7	448	453	5
Kashmere HS	408	433	25	397	410	13
Kinder HSPVA	641	638	-3	602	596	-6
Lamar HS	535	528	-7	516	507	-9
Leland YMCPA	535	518	-17	507	478	-29
Liberty HS	402	413	11	422	399	-23
Long Acad	542	473	-69	574	467	-107
Madison HS	420	424	4	400	414	14
Middle College HS - Fraga	442	437	-5	429	430	1
Middle College HS - Gulfon	422	429	7	401	412	11
Milby HS	439	432	-7	429	420	-9
Mount Carmel Acad HS	477	469	-8	466	450	-16
North Forest HS	409	418	9	396	399	3
North Houston EC HS	540	514	-26	535	508	-27
Northside HS	445	460	15	448	450	2
Scarborough HS	433	432	-1	425	423	-2
Sharpstown HS	405	438	33	419	417	-2
Sharpstown Intl	509	510	1	499	497	-2
South EC HS	498	498	0	483	484	1
Sterling HS	404	441	37	396	420	24
TCAH	560	558	-2	522	514	-8
Waltrip HS	453	462	9	439	442	3
Washington HS	419	440	21	410	412	2
Westbury HS	444	439	-5	431	432	1
Westside HS	532	538	6	525	525	0
Wheatley HS	409	422	13	397	398	1
Wisdom HS	415	412	-3	414	405	-9
Worthing HS	400	415	15	395	400	5
Yates HS	420	389	-31	407	383	-24
YWCPA	541	537	-4	525	510	-15
HISD	485	490	5	475	476	1

Sources: 2019–2022 SAT Data from Cognos, 12/2/2022; PEIMS Student Leaver File, 12/8/2022; SAT data file, 2021

Notes: For the Class of 2022, the highest ERW and mathematics scores over the past four years are shown. For the Class of 2021, the most recent results are shown.

*Fewer than 5 students tested

--No students tested

Conclusion

Seventy-nine percent of the district's Class of 2022 took the SAT, which is a lower percentage than from the Classes of 2019 and 2020. This seems to indicate that students are continuing to experience the effects of the COVID-19 pandemic. Among the Class of 2022, the participation rate was the highest for the district's Asian students at 89 percent, followed by Hispanic students at 81 percent. The participate rate was the lowest for the district's White students at 65 percent.

In previous years, the most recent SAT scores were shown for students who self-reported a graduation date for that year, following the way that the College Board reports results. However, for the district's Class of 2022, the highest ERW and mathematics scores over the past four years for students who graduated according to the Fall PEIMS Student Leaver file are shown as a result of consulting with members from the district's Postsecondary department. Due to this change in methodology, some caution should be used when comparing 2022 results with previous years' results. Results for the state and total group continue to be the students' most recent results.

Using the highest ERW and mathematics scores over the past four years, the district's Class of 2022 scored an average composite score of 966, an average ERW score of 490, and an average mathematics score of 476. Twenty-eight of the district's testers met both college-readiness benchmarks. The district's Asian and White students continue to outperform African American and Hispanic students, as well as Asian and White students from the state and total group.

As campuses and students continue to recover from the devastating effects of the COVID-19 pandemic, SAT participation rates should increase. Emphasis on SAT preparation and college readiness for all students should return to the forefront once again.