

STAAR 100-Point Scale Overview

The State of Texas Assessments of Academic Readiness (STAAR®) 100-Point Scale allows for the comparison of a student's performance with the performances of other students who took the same STAAR End-of-Course (EOC) assessment. The 100-Point Scale is defined using percentiles, which represent the percentage of students across the state who took the assessment and received a scale score less than the scale score of interest. Percentiles are calculated based on all students, except for out-of-school testers, who received valid scale scores on the assessment during the spring administration of that year.

For example, a student who earned a scale score of 4249 on the STAAR U.S. History assessment scored higher than 45 percent of other students who took the same test during the spring administration of that year.

STAAR U.S. History

Scale Score	Percentile
⋮	⋮
4170	41
4209	43
4249	45
4290	48
⋮	⋮

Frequently Asked Questions

- My student answered all the questions correctly and received the highest possible scale score in the table. Why is my student's score on the 100-Point Scale not equal to 100?

The 100-Point Scale is defined using the percentile of the student scores. The percentile is not directly related to the percent of questions the student answered correctly. It is based on the percent of students who received lower scale scores, rounded down to the closest whole number. In this example, your student did not score higher than 100 percent of students because he or she did not score higher than the other students who also received the highest possible scale score.

- How are percentiles calculated for the 100-Point Scale Table?

A percentile associated with a specific scale score represents the percent of students who took the test and received a scale score less than the specific scale score. The following formula is used to calculate the percentile $p(S)$ for a scale score S , where N is the total number of students who took the test, and x is the number of students with scale scores less than S .

$$p(S) = \frac{x}{N} \times 100$$

If the calculated percentile is not a whole number, it is rounded down to the closest whole number.

STAAR 100-Point Scale Overview

- What if my student's scale score does not appear in the 100-Point Scale Table?

There are different versions for each STAAR EOC assessment (paper, online, braille, ASL, and paper with embedded supports). While scale scores are equivalent across versions, each version and administration may result in different specific scale scores¹. The specific scale scores listed in the 100-Point Scale Table are the ones from the assessment administered on paper or on computer (online) during the spring administration. If your student's scale score is not listed in the table, a range for the percentile can be obtained. The percentile associated with your student's scale score is between the percentiles for the scale scores in the table just above and just below your student's scale score.

For example, a student's scale score on the STAAR U.S. History assessment is 4230. The table indicates that the scale scores just below and above 4230 are 4209 and 4249. These two scale scores are associated with the percentiles 43 and 45, respectively. Therefore, the percentile associated with a scale score of 4230 is between 43 and 45.

- Why are multiple scale scores associated with the same value on the 100-Point Scale?

The percentile represents a percent of students who took the test. If the percentile for two scale scores is the same, this indicates that less than one percent of the students who took the test received the lower scale score.

¹ Refer to chapter 3, "Standard Technical Processes," in the [Technical Digests](#) for detailed information about equating and scale scores.

State of Texas Assessments of Academic Readiness (STAAR)
 End-of-Course 100-Point Scale
 Spring 2021

STAAR Algebra I	
Scale Score ¹	Percentile ^{2,3}
1440	0
1979	0
2296	0
2486	0
2624	0
2734	0
2825	0
2905	0
2976	0
3040	0
3099	1
3154	2
3205	4
3253	6
3299	9
3343	12
3386	15
3427	19
3466	22
3500	25
3550	28
3580	31
3616	33
3652	36
3688	38
3723	41
3759	43
3794	45
3829	48
3865	50
3900	52
3936	54
3972	57
4000	59
4046	61
4084	63
4123	66
4163	68
4205	70
4247	72
4292	74
4333	76
4388	78
4439	80
4495	82
4554	84
4619	86
4691	88
4772	90
4865	92
4976	93
5116	95
5307	96
5625	98
6165	99

- ¹. Scale scores in this table are from the raw score conversion table of the STAAR administration of Algebra I assessment.
². To find the percentiles for the scale scores that are not in this table, refer to the “Frequently Asked Questions” in *STAAR 100-Point Scale Overview*.
³. Percentiles were calculated using all students, except for out-of-school testers, who received valid scale scores on the assessment.

	Approaches 2012-2015
	Approaches
	Meets
	Masters

State of Texas Assessments of Academic Readiness (STAAR)
 End-of-Course 100-Point Scale
 Spring 2021

STAAR Algebra II	
Scale Score ¹	Percentile ^{2,3}
1190	0
1793	0
2149	0
2364	0
2521	0
2647	0
2753	0
2846	1
2928	2
3003	4
3073	7
3138	10
3198	15
3256	19
3311	24
3364	29
3416	34
3466	38
3500	42
3550	46
3608	49
3654	53
3699	56
3745	60
3789	63
3834	66
3879	69
3923	72
3969	74
4000	77
4059	80
4106	82
4154	84
4202	86
4252	88
4303	89
4356	91
4411	92
4469	93
4530	94
4595	95
4664	96
4739	97
4822	98
4914	98
5020	99
5146	99
5303	99
5518	99
5874	99
6476	99

¹. Scale scores in this table are from the raw score conversion table of the STAAR administration of Algebra II assessment.

². To find the percentiles for the scale scores that are not in this table, refer to the “Frequently Asked Questions” in [STAAR 100-Point Scale Overview](#).

³. Percentiles were calculated using all students, except for out-of-school testers, who received valid scale scores on the assessment.

	Approaches 2012-2015
	Approaches
	Meets
	Masters

State of Texas Assessments of Academic Readiness (STAAR)
 End-of-Course 100-Point Scale
 Spring 2021

STAAR English I	
Scale Score ¹	Percentile ^{2,3}
1148	0
1702	0
2029	0
2224	0
2366	0
2478	0
2571	0
2651	0
2721	0
2783	0
2838	0
2889	0
2936	0
2979	1
3019	1
3056	2
3092	2
3125	3
3158	4
3189	4
3219	5
3249	6
3278	7
3307	9
3336	10
3364	11
3393	12
3422	14
3451	15
3480	18
3510	19
3540	21
3571	22
3601	24
3633	26
3665	28
3698	30
3730	32
3775	34
3798	37
3832	39
3868	41
3903	44
3940	46
3977	48
4000	49
4055	53
4095	56
4137	59
4180	61
4224	64
4270	67
4318	70
4368	73
4421	76
4477	79
4536	82
4600	84
4691	87
4745	90
4829	92
4923	94
5030	95
5151	97
5292	98
5460	99
5676	99
6011	99
6560	99

¹. Scale scores in this table are from the raw score conversion table of the STAAR paper administration of English I assessment.

². To find the percentiles for the scale scores that are not in this table, refer to the “Frequently Asked Questions” in [STAAR 100-Point Scale Overview](#).

³. Percentiles were calculated using all students, except for out-of-school testers, who received valid scale scores on the assessment.

	Approaches 2012-2015 Approaches
	Meets
	Masters

State of Texas Assessments of Academic Readiness (STAAR)

End-of-Course 100-Point Scale

Spring 2021

STAAR English II	
Scale Score ¹	Percentile ^{2,3}
1051	0
1628	0
1965	0
2166	0
2311	0
2424	0
2517	0
2597	0
2666	0
2727	0
2782	0
2831	0
2877	0
2919	0
2959	1
2996	1
3031	2
3066	2
3099	3
3131	4
3162	4
3194	5
3224	6
3256	7
3286	9
3317	10
3348	11
3379	12
3411	13
3442	14
3475	16
3507	17
3539	18
3572	20
3606	21
3640	23
3674	24
3709	26
3750	27
3775	29
3815	33
3851	35
3888	37
3926	39
3964	41
4000	42
4043	46
4084	49
4126	52
4169	55
4214	58
4260	61
4308	64
4358	67
4410	70
4465	73
4524	77
4586	80
4654	83
4726	86
4831	89
4892	91
4989	93
5099	95
5227	97
5381	98
5586	99
5918	99
6481	99

¹. Scale scores in this table are from the raw score conversion table of the STAAR paper administration of English II assessment.

². To find the percentiles for the scale scores that are not in this table, refer to the “Frequently Asked Questions” in [STAAR 100-Point Scale Overview](#).

³. Percentiles were calculated using all students, except for out-of-school testers, who received valid scale scores on the assessment.

	Approaches 2012-2015
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State of Texas Assessments of Academic Readiness (STAAR)
 End-of-Course 100-Point Scale
 Spring 2021

STAAR English III	
Scale Score ¹	Percentile ^{2,3}
861	0
1502	0
1877	0
2101	0
2262	0
2388	0
2493	0
2582	0
2659	0
2728	0
2789	0
2846	0
2899	0
2947	0
2994	1
3037	2
3079	3
3119	4
3158	4
3196	5
3234	6
3271	8
3307	10
3343	11
3379	13
3415	15
3451	17
3486	19
3522	21
3557	23
3593	25
3629	27
3665	29
3702	32
3750	34
3775	37
3811	42
3848	45
3886	48
3923	52
3961	55
4000	56
4038	61
4078	64
4118	67
4159	70
4201	73
4243	76
4286	78
4331	81
4377	83
4425	87
4474	89
4546	91
4578	92
4634	93
4693	95
4755	95
4822	97
4894	97
4973	98
5059	99
5157	99
5268	99
5401	99
5567	99
5793	99
6169	99
6809	100

¹. Scale scores in this table are from the raw score conversion table of the STAAR paper administration of English III assessment.

². To find the percentiles for the scale scores that are not in this table, refer to the “Frequently Asked Questions” in *STAAR 100-Point Scale Overview*.

³. Percentiles were calculated using all students, except for out-of-school testers, who received valid scale scores on the assessment.

	Approaches 2012-2015
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State of Texas Assessments of Academic Readiness (STAAR)

End-of-Course 100-Point Scale

Spring 2021

STAAR Biology	
Scale Score ¹	Percentile ^{2,3}
1365	0
1919	0
2246	0
2443	0
2586	0
2700	0
2797	0
2880	0
2955	0
3022	0
3084	0
3143	1
3197	2
3249	4
3298	5
3346	7
3392	9
3437	12
3500	14
3523	16
3550	19
3605	21
3646	23
3686	26
3727	28
3767	30
3807	33
3848	35
3889	38
3930	40
3972	43
4000	45
4058	48
4103	51
4148	54
4196	57
4245	59
4297	63
4351	66
4408	69
4469	72
4535	75
4576	78
4684	81
4772	84
4874	87
4993	90
5143	92
5347	95
5682	97
6243	99

¹. Scale scores in this table are from the raw score conversion table of the STAAR administration of Biology assessment.

². To find the percentiles for the scale scores that are not in this table, refer to the “Frequently Asked Questions” in *STAAR 100-Point Scale Overview*.

³. Percentiles were calculated using all students, except for out-of-school testers, who received valid scale scores on the assessment.

	Approaches 2012-2015
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	Masters

State of Texas Assessments of Academic Readiness (STAAR)
 End-of-Course 100-Point Scale
 Spring 2021

STAAR U.S. History	
Scale Score ¹	Percentile ^{2,3}
905	0
1508	0
1863	0
2076	0
2230	0
2353	0
2455	0
2544	0
2622	0
2693	0
2758	0
2817	0
2873	0
2926	0
2976	0
3023	0
3068	0
3112	1
3154	1
3194	2
3234	3
3272	3
3309	4
3346	5
3382	6
3417	7
3452	8
3500	9
3520	10
3550	12
3587	13
3620	14
3653	15
3687	16
3719	18
3752	19
3785	21
3819	22
3852	24
3885	25
3919	27
3953	29
4000	30
4023	32
4059	34
4095	36
4132	38
4170	41
4209	43
4249	45
4290	48
4333	51
4377	53
4440	56
4472	59
4523	62
4576	65
4633	68
4695	72
4761	75
4834	79
4915	82
5006	85
5110	89
5236	92
5394	94
5610	96
5969	98
6576	99

¹. Scale scores in this table are from the raw score conversion table of the STAAR administration of U.S. History assessment.

². To find the percentiles for the scale scores that are not in this table, refer to the “Frequently Asked Questions” in *STAAR 100-Point Scale Overview*.

³. Percentiles were calculated using all students, except for out-of-school testers, who received valid scale scores on the assessment.

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