



Master List Summary | WESTLAKE ACADEMY



DISTRICT: WESTLAKE ACADEMY

GRADE: 04
TEST DATE: 10/09

Total Number Tested 41	Reading				Mathematics			Language		Spelling	Science	Social Science	Listening	Thinking Skills	Battery Totals	
	Total Reading	Word Study Skills	Reading Vocabulary	Reading Comprehension	Total Mathematics	Mathematics Problem Solving	Mathematics Procedures	Language	Basic Battery						Complete Battery	
Number Possible	114	30	30	54	76	46	30	48		38	40	40	40	174	316	396
Number Tested	40	40	40	40	39	39	40	38		38	38	38	38	35	35	35
Mean Number Correct	96.1	23.7	26.4	46.1	64.3	39.9	24.4	39.6		27.8	32.9	33.3	34.1	146.9	260.8	326.8
Mean Scaled Score	658.8	643.6	659.6	672.0	656.7	656.0	656.1	650.2		645.6	664.3	651.9	652.5	659.0	NA	NA
National PR-S of the Mean National NCE	76-6	61-6	74-6	85-7	83-7	81-7	84-7	75-6		76-6	84-7	80-7	83-7	87-7	78-7	79-7
Mean National NCE	64.8	56.0	63.4	71.6	70.2	68.5	71.0	64.4		64.9	70.7	67.6	70.5	73.3	66.1	66.7
At/Above the 50th National PR																
Number	34	25	31	37	32	34	31	27		31	32	34	34	31	31	30
Percent	85	63	78	93	82	87	78	71		82	84	89	89	89	89	86

The *Stanford Achievement Test Series, Tenth Edition (Stanford 10)*, includes a single reporting system designed to present scores over the entire *Stanford 10* series from the SESAT to the TASK levels. The reports also include results for the *Otis-Lennon School Ability Test®, Eighth Edition (OLSAT)*, when it is administered in combination with the *Stanford 10*.

INDIVIDUAL SCORE TYPES FOR SUBTESTS AND DOMAIN TOTALS

Score Type	Description
Number Correct (NC)	A content-referenced score indicating the number of questions answered correctly.
Scaled Score (SS)	A standard score derived from the Number Correct (Raw Score) that indicates performance on all forms and levels of a given Stanford 10 subtest along a single, comparable scale. The Scaled Score facilitates conversions to other score types and the study of changes in performance from grade to grade.
Percentile Rank (PR)	A standard score derived from the Scaled Score that indicates the relative standing of a student in comparison to same-grade students in the norm (reference) group who took the same subtest at a comparable time. For example, a PR of 75 means that for a particular subtest the student performed as well as or better than 75% of the students in the reference group.
Stanine (S)	A standard score derived from the Percentile Rank that ranges from 1 to 9, with a mean of 5 and a standard deviation of 2. Like Percentile Ranks, Stanines indicate a student's relative standing with respect to a reference group. Usually, Stanines of 1, 2, and 3 indicate a Below Average performance; 4, 5, and 6 are Average; and 7, 8, and 9 are Above Average.
Grade Equivalent (GE)	A norm-referenced standard score that represents the average performance of students tested in a given month of the school year. Subject to misinterpretation, Grade Equivalents are best used to interpret the performance of groups of students rather than the performance or standing of an individual.
Normal Curve Equivalent (NCE)	A standard score derived from the Percentile Rank that ranges from 1 to 99, with a mean of 50 and a standard deviation of 21.06.
Achievement/Ability Comparison (AAC)	A score that categorizes a student's achievement on a subtest or domain total in relation to the achievement of a comparison group with the same ability as measured by the OLSAT. AAC categories (HIGH, MIDDLE, and LOW) are available only when the OLSAT is administered to the student with the Stanford 10.
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.

INDIVIDUAL SCORE TYPES FOR BATTERY TOTALS AND COMPOSITES

Score Type	Description
Number Correct (NC)	The sum of Number Correct (Raw Scores) for all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Percentile Rank (PR)	The Percentile Ranks (PRs) for all subtests taken that corresponds to the mean NCE.
Stanine (S)	Derived from the Percentile Rank (PR).
Grade Equivalent (GE)	The median of GEs for all subtests taken. (Half of the scores are above the median, half below.)
Normal Curve Equivalent (NCE)	The mean of NCEs for all subtests taken.
Achievement/Ability Comparison (AAC)	The mean of AAC ranges for all subtests taken.

ABBREVIATIONS

AAC = Achievement/Ability Comparison
 AVG = Average
 GE = Grade Equivalent
 INV = Invalid Test
 LVL = Level
 N, % = Number, Percent
 NATL or NATL = National
 NCE = Normal Curve Equivalent
 N-COUNT = Number of Students
 OLSAT = Otis-Lennon School Ability Test®, Eighth Edition
 P10 = 10th Percentile
 P90 = 90th Percentile

PHS = Post High School
 PK = Pre-Kindergarten
 PR-S = Percentile Rank-Stanine
 Q1 = First Quartile
 Q3 = Third Quartile
 NP/NA/NC = Number Possible/Number Attempted/
 Number Correct
 SAI = School Ability Index
 SD or STANDARD DEV = Standard Deviation
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 UG = Ungraded

GROUP SCORE TYPES ON TEST ITEMS

Score Type	Description
p-Value	The percentage of a group of students answering a test question correctly.

GROUP SCORE TYPES ON TESTS AND TOTALS

Score	Type Description
Mean Number Correct	The average of Number Correct (Raw Scores) earned by a group taking a given subtest or domain total.
Mean Scaled Score	The average of Scaled Scores earned by a group taking a given subtest or domain total.
Mean NCE	The average of NCEs earned by a group taking a given subtest or domain total.
Mean SAI	The average of SAIs earned by a group taking a given subtest or domain total.
Standard Deviation	A measure of the variability in a group of scores.
National PR-S of the Mean NCE	An indicator of the performance of the typical student in the group in terms of Percentile Rank. Since percentile ranks cannot be averaged, all of the percentile ranks in a group of scores are converted to NCEs, the NCEs are averaged, and the mean NCE is converted to a percentile rank.
Median Grade Equivalent	An indicator of the performance of the typical student in the group in terms of grade equivalents. Since grade equivalents cannot be averaged, the GE that divides the group exactly in half is used.
Mean p-Value	The average of the p-values for all items in a cluster, subtest, or domain total.
National Percentile Rank Summary	The number and percent of students in a group falling into each quartile of the score distribution. May also include the top and bottom 10% of the distribution.
Achievement/Ability Comparison Summary	The percent of students in each OLSAT grade-based stanine earning AACs of High, Middle, and Low. In a normally distributed set of scores, you would expect to find 23% of students earning AACs of High, 54% earning AACs of Middle, and 23% of students earning AACs of Low.

NORMS

Norms Type	Description
National Norms	Comparisons of student performance based on the national standardization sample.
Local Norms	Comparisons of student performance based on a local (district or state) reference group.
OLSAT Age Norms	Comparisons of student performance on OLSAT based on student age, regardless of grade in school. Includes the School Ability Index (SAI).
OLSAT Grade Norms	Comparisons of student performance on OLSAT based on student grade in school, regardless of age.

FOOTNOTES

DNA = Not available because the student did not attempt the test or all components of a total score.
 H✓ = "Average," but the highest possible rating for this cluster for this grade.
 INV = Invalidated subtest
 L✓ = "Average," but the lowest possible rating for this cluster for this grade.
 NA = Scaled Scores not available for Battery.
 NA¹ = Not available because number correct (raw score) of zero does not yield any derived scores.
 NA² = Not available because the student's age is unknown or out of range for the grade.
 NA³ = Norms do not exist for this grade because the test was given out of level.
 NA⁴ = Cluster performance ratings are available for national norms only.

NA^{*} = Number correct (raw score) not available for mixed levels.
 NA⁹ = Not available because the student's grade was designated Ungraded.
 0¹ = A zero score yields no derived scores.
¹ = Statistics do not include students with zero number correct (raw score).
² = Excludes students with missing or questionable ages.
³ = Local norms based on fewer than 100 students lack precision and should be interpreted with caution.
⁴ = Numbers may vary because mixed-level testing occurred and not all subtests exist at all levels.



Group Report | WESTLAKE ACADEMY

National Comparison



GRADE: 04

TEST DATE: 10/09

DISTRICT: WESTLAKE ACADEMY

Subtests and Totals	Number Tested	Mean Number Correct	Mean Scaled Score	National Individual PR-S	Mean National NCE	National Grade Percentile Ranks					
						1	10	30	50	70	90
Total Reading	40	96.1	659	76-6	64.8						
Word Study Skills	40	23.7	644	61-6	56.0						
Reading Vocabulary	40	26.4	660	74-6	63.4						
Reading Comprehension	40	46.1	672	85-7	71.6						
Total Mathematics	39	64.3	657	83-7	70.2						
Mathematics Problem Solving	39	39.9	656	81-7	68.5						
Mathematics Procedures	40	24.4	656	84-7	71.0						
Language	38	39.6	650	75-6	64.4						
Spelling	38	27.8	646	76-6	64.9						
Science	38	32.9	664	84-7	70.7						
Social Science	38	33.3	652	80-7	67.6						
Listening	38	34.1	653	83-7	70.5						
Thinking Skills	35	146.9	659	87-7	73.3						
Basic Battery	35	260.8	NA	78-7	66.1						
Complete Battery	35	326.8	NA	79-7	66.7						

About This Group's Performance:

This group recently took the *Stanford Achievement Test, Tenth Edition* (Stanford 10). This test is one measure of their achievement. This report describes the performance of the typical student in this group compared to students in the same grade across the nation. The Battery scores provide an overall indication of this group's performance. The typical student in this group scored in the upper range for the grade, which means that group performance was Above Average. The chart below shows this group's performance in each subject area tested.

Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each		
		Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg
C Word Study Skills	30	5	68	28	C Mathematics Procedures	30	10	30	60	P Science (cont.)				
C Structural Analysis	12	0	18	83	C Number Facts	6	8	38	55	P Thinking Skills	20	3	26	71
C Phonetic Analysis-Consonants	9	5	50	45	C Computation w/Whole Numbers	16	10	30	60	C Social Science	40	8	39	53
C Phonetic Analysis-Vowels	9	20	65	15	C Computation with Decimals	8	5	35	60	C History	10	8	34	58
C Reading Vocabulary	30	5	53	43	P Computation in Context	14	5	40	55	C Geography	10	5	24	71
C Synonyms	15	8	30	63	P Computation/Symbolic Notation	16	8	25	68	C Political Science	10	3	42	55
C Multiple Meaning Words	6	3	38	60	P Thinking Skills	14	5	28	68	C Economics	10	8	29	63
C Context Clues	9	3	45	53	C Language	48	3	45	53	P App. of Knowledge/Comp.	16	0	34	66
P Thinking Skills	15	5	28	68	C Capitalization	8	18	55	26	P Org., Summ. & Interp. of Info.	13	8	18	74
C Reading Comprehension	54	3	30	68	C Usage	8	8	39	53	P Determination of Cause/Effect	11	5	16	79
C Literary	18	5	30	65	C Punctuation	8	3	55	42	P Thinking Skills	19	5	24	71
C Informational	18	3	38	60	C Sentence Structure	7	8	32	61	C Listening	40	3	29	68
C Functional	18	5	20	75	C Prewriting	5	11	37	53	C Vocabulary	10	3	34	63
P Initial Understanding	12	3	33	65	C Content and Organization	12	5	37	58	C Comprehension	30	0	34	66
P Interpretation	20	5	25	70	P Thinking Skills	6	8	42	50	P Initial Understanding	11	3	47	50
P Critical Analysis	12	5	45	50	C Spelling	38	3	47	50	P Interpretation	12	3	26	71
P Strategies	10	5	48	48	C Sight Words	3	5	55	39	P Analysis	7	0	53	47
P Thinking Skills	42	5	28	68	C Phonetic Principles	18	8	47	45	C Literary	10	3	42	55
C Mathematics Problem Solving	46	3	41	56	C Structural Principles	8	5	55	39	C Informational	10	0	39	61
C Number Sense & Operations	25	0	38	62	C No Mistake	9	8	58	34	C Functional	10	5	58	37
C Patterns/Relationships/Algebra	5	3	97	0	C Science	40	3	32	66	P Thinking Skills	19	3	21	76
C Data, Statistics & Probability	6	5	38	56	C Life	11	5	55	39	C Thinking Skills	174	3	26	71
C Geometry & Measurement	10	5	23	72	C Physical	11	5	32	63					
P Communication & Representation	7	0	64	36	C Earth	11	5	29	66					
P Estimation	6	0	59	41	C Nature of Science	7	0	45	55					
P Mathematical Connections	21	5	38	56	P Models	14	3	45	53					
P Reasoning & Problem Solving	12	3	33	64	P Constancy	13	5	37	58					
P Thinking Skills	39	3	36	62	P Form & Function	13	5	29	66					

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STUDENT REPORTS

- Various reports provide information about individual students' scores for subtests, totals, and/or clusters.
- The student's name appears at the top of the report for high visibility and quick recognition.
- The classroom teacher's name, school, and district appear in the upper portion of the report for easy identification.
- Grade and test date are printed at the top center of the score reports.
- Stanford 10 and OLSAT norms (Fall, Midyear, or Spring), test level, and form are printed at the bottom of the reports.
- On some reports, when percentile ranks are reported, grade percentile bands are reported on a bar graph. These bands, which span ± 1 standard error of measurement, permit quick identification of student's relative strengths and weaknesses by subject area. In general, percentile bands that do not overlap may be considered to represent significant differences in performance.
- On some reports, short paragraphs for each subject area tested describe the subtest, your student's performance, and provide suggestions for further learning at home.
- On some reports, performance on clusters is reported as Below Average, Average, or Above Average. This reporting method enables the teacher to identify relative strengths and weaknesses within a content area. Clusters may be content clusters or process clusters. Number Possible, Number Attempted, and Number Correct for each cluster are also reported.
- OLSAT scores are reported for Total, Verbal, and Nonverbal when OLSAT is processed in combination with Stanford 10.
- On some reports, the Lexile[™] measure is reported. The Lexile[™] measure, converted from the student's Reading Comprehension subtest score, is an indicator of the student's reading level and can be used to match the student to appropriate text.

ABBREVIATIONS

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AVG = Average	PK = Pre-Kindergarten
GE = Grade Equivalent	PR-S = Percentile Rank-Stanine
LVL = Level	Q1 = First Quartile
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NCE = Normal Curve Equivalent	SD or STANDARD DEV = Standard Deviation
N-COUNT = Number of Students	SS = Scaled Score
OLSAT = Otis-Lennon School Ability Test [®] , Eighth Edition	UG = Ungraded
P10 = 10th Percentile	
P90 = 90th Percentile	

GROUP REPORTS

- Student Reports may be accompanied by group summaries that are available for class, school, or district.
- The group name appears at the top of the report for high visibility and quick recognition.
- The school and/or district names appear in the upper portion of the report for easy identification.
- Grade and test date are printed at the top center of the score reports.
- Stanford 10 and OLSAT norms (Fall, Midyear, or Spring), test level, and form are printed at the bottom of the reports.
- Summaries of the score types chosen are reported for overall performance.
- On some reports, when percentile ranks are reported, a bar graph in terms of Grade Percentile Ranks permits quick identification of the group's relative strengths and weaknesses by subject area.
- On some reports, a summary of the group's performance on multiple-choice clusters is reported in terms of percent of students in the group scoring in the Below Average, Average, or Above Average categories. This reporting method enables the teacher to identify relative strengths and weaknesses within a content area. Clusters may be content clusters or process clusters. Number of Items for each cluster is also reported.
- OLSAT scores are summarized and reported for Total, Verbal, and Nonverbal when OLSAT is processed in combination with Stanford 10.

FOOTNOTES

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 H✓ = "Average" but the highest possible rating for this cluster for this grade
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 1 = Statistics do not include students with zero number correct (raw score).
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 3 = Local norms based on fewer than 100 students lack precision and should be interpreted with caution.
 4 = Numbers may vary because mixed-level testing occurred and not all subtests exist at all levels

TYPES, CHARACTERISTICS, AND APPLICATIONS OF SCORES ON SUBTESTS AND DOMAIN TOTALS

Score	Description	Comparable Across			Grades
		Subtests	Forms	Levels	
Number Correct (NC)	The number of questions the student answered correctly. (Interpret only in relation to the set of questions on which the score was earned.)	NO	NO	NO	Only for the same subtest, form, or level
Scaled Score (SS)	Facilitates conversions to other score types and suitable for studying change in performance over time	NO	YES	YES	Only for the same subtest
Percentile Rank (PR)	Indicates the relative standing of a student in comparison with students in the same grade in the norm (reference) group who took the test at a comparable time.	YES	YES	YES	NO
Stanine (S)	Standard score with a mean of 5 and a standard deviation of 2. Stanines of 1, 2, 3 are below average; 4, 5, 6 are average; and 7, 8, 9 are above average. (Useful for interpreting score profiles.)	YES	YES	YES	NO
Normal Curve Equivalent (NCE)	Direct conversion from percentile rank. (Standard score resulting from the division of the normal curve into 99 equal units.)	YES	YES	YES	NO
Grade Equivalent (GE)	Grade placement at which the number correct (raw score) is average.	YES	YES	YES	NO
Achievement/Ability Comparison (AAC)	Evaluates a student's performance on a Stanford subtest or domain total in relation to the performance of others with the same level of ability. (An AAC of "High" refers to the top 23% of the comparison group, "Low" to the lowest 23%, and "Middle" to the middle 54%.)	YES	YES	YES	NO
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.	NO	YES	YES	Only for the same subtest

SCORES ON BATTERY TOTALS AND COMPOSITES

Score	Description
Number Correct (NC)	The sum of all subtest number correct scores.
Equivalent (NCE) Normal Curve	The average of the subtest NCEs across all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Grade Equivalent (GE)	The median GE across all subtests taken.
Percentile Rank (PR) Achievement/Ability Comparison (AAC)	Obtained from the mean NCE. The average of the subtest AACs, obtained from subtest AAC ranges.
Stanine (S)	Determined from the percentile rank.

Please refer to the *Stanford 10 Spring Multilevel Norms Book* or the *Stanford 10 Fall Multilevel Norms Book* for detailed explanations and guidance related to scores.



Master List Summary | WESTLAKE ACADEMY



DISTRICT: WESTLAKE ACADEMY

GRADE: 05

TEST DATE: 10/09

Total Number Tested 38	Reading				Mathematics			Language			Spelling	Science	Social Science	Listening	Thinking Skills	Battery Totals	
	Total Reading	Word Study Skills	Reading Vocabulary	Reading Comprehension	Total Mathematics	Mathematics Problem Solving	Mathematics Procedures	Language	Language Mechanics	Language Expression						Basic Battery	Complete Battery
Number Possible	114	30	30	54	80	48	32	48	24	24	40	40	40	40	190	322	402
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Mean Number Correct	95.7	24.2	27.6	43.9	68.4	40.3	28.1	39.7	19.1	20.6	30.5	33.7	33.4	32.0	157.9	266.4	333.4
Mean Scaled Score	673.2	672.5	692.3	674.1	678.4	679.2	682.9	665.4	657.2	677.7	656.2	671.8	669.4	661.4	666.8	NA	NA
National PR-S of the Mean National NCE	80-7	74-6	84-7	80-7	86-7	86-7	85-7	79-7	72-6	83-7	72-6	85-7	84-7	83-7	85-7	81-7	81-7
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Number	29	26	31	31	36	34	34	33	30	31	26	36	33	34	31	30	31
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Standard Deviation	A measure of the variability in a group of scores.
National PR-S of the Mean NCE	An indicator of the performance of the typical student in the group in terms of Percentile Rank. Since percentile ranks cannot be averaged, all of the percentile ranks in a group of scores are converted to NCEs, the NCEs are averaged, and the mean NCE is converted to a percentile rank.
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Mean p-Value	The average of the p-values for all items in a cluster, subtest, or domain total.
National Percentile Rank Summary	The number and percent of students in a group falling into each quartile of the score distribution. May also include the top and bottom 10% of the distribution.
Achievement/Ability Comparison Summary	The percent of students in each OLSAT grade-based stanine earning AACs of High, Middle, and Low. In a normally distributed set of scores, you would expect to find 23% of students earning AACs of High, 54% earning AACs of Middle, and 23% of students earning AACs of Low.

NORMS

Norms Type	Description
National Norms	Comparisons of student performance based on the national standardization sample.
Local Norms	Comparisons of student performance based on a local (district or state) reference group.
OLSAT Age Norms	Comparisons of student performance on OLSAT based on student age, regardless of grade in school. Includes the School Ability Index (SAI).
OLSAT Grade Norms	Comparisons of student performance on OLSAT based on student grade in school, regardless of age.

FOOTNOTES

DNA = Not available because the student did not attempt the test or all components of a total score.
 H✓ = "Average," but the highest possible rating for this cluster for this grade.
 INV = Invalidated subtest
 L✓ = "Average," but the lowest possible rating for this cluster for this grade.
 NA = Scaled Scores not available for Battery.
 NA¹ = Not available because number correct (raw score) of zero does not yield any derived scores.
 NA² = Not available because the student's age is unknown or out of range for the grade.
 NA³ = Norms do not exist for this grade because the test was given out of level.
 NA⁴ = Cluster performance ratings are available for national norms only.

NA^{*} = Number correct (raw score) not available for mixed levels.
 NA⁹ = Not available because the student's grade was designated Ungraded.
 0¹ = A zero score yields no derived scores.
¹ = Statistics do not include students with zero number correct (raw score).
² = Excludes students with missing or questionable ages.
³ = Local norms based on fewer than 100 students lack precision and should be interpreted with caution.
⁴ = Numbers may vary because mixed-level testing occurred and not all subtests exist at all levels.



Group Report | WESTLAKE ACADEMY

National Comparison



GRADE: 05

TEST DATE: 10/09

DISTRICT: WESTLAKE ACADEMY

Subtests and Totals	Number Tested	Mean Number Correct	Mean Scaled Score	National Individual PR-S	Mean National NCE	National Grade Percentile Ranks					
						1	10	30	50	70	90
Total Reading	35	95.7	673	80-7	67.5	[Bar chart showing percentile ranks]					
Word Study Skills	35	24.2	672	74-6	63.5	[Bar chart showing percentile ranks]					
Reading Vocabulary	35	27.6	692	84-7	71.3	[Bar chart showing percentile ranks]					
Reading Comprehension	35	43.9	674	80-7	67.6	[Bar chart showing percentile ranks]					
Total Mathematics	37	68.4	678	86-7	73.1	[Bar chart showing percentile ranks]					
Mathematics Problem Solving	37	40.3	679	86-7	72.8	[Bar chart showing percentile ranks]					
Mathematics Procedures	37	28.1	683	85-7	72.1	[Bar chart showing percentile ranks]					
Language	38	39.7	665	79-7	66.7	[Bar chart showing percentile ranks]					
Language Mechanics	38	19.1	657	72-6	62.5	[Bar chart showing percentile ranks]					
Language Expression	38	20.6	678	83-7	70.0	[Bar chart showing percentile ranks]					
Spelling	38	30.5	656	72-6	62.2	[Bar chart showing percentile ranks]					
Science	38	33.7	672	85-7	71.7	[Bar chart showing percentile ranks]					
Social Science	38	33.4	669	84-7	71.4	[Bar chart showing percentile ranks]					
Listening	38	32.0	661	83-7	69.8	[Bar chart showing percentile ranks]					
Thinking Skills	34	157.9	667	85-7	71.7	[Bar chart showing percentile ranks]					
Basic Battery	34	266.4	NA	81-7	68.2	[Bar chart showing percentile ranks]					
Complete Battery	34	333.4	NA	81-7	68.9	[Bar chart showing percentile ranks]					

About This Group's Performance:

This group recently took the *Stanford Achievement Test, Tenth Edition* (Stanford 10). This test is one measure of their achievement. This report describes the performance of the typical student in this group compared to students in the same grade across the nation. The Battery scores provide an overall indication of this group's performance. The typical student in this group scored in the upper range for the grade, which means that group performance was Above Average. The chart below shows this group's performance in each subject area tested.

Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each		
		Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg
C Word Study Skills	30	9	31	60	C Mathematics Procedures	32	0	38	62	P Science (cont.)				
C Structural Analysis	12	3	40	57	C Computation w/Whole Numbers	18	3	32	65	P Form & Function	13	0	29	71
C Phonetic Analysis-Consonants	9	14	34	51	C Computation with Decimals	8	3	30	68	P Thinking Skills	20	0	37	63
C Phonetic Analysis-Vowels	9	11	43	46	C Computation with Fractions	6	0	30	70	C Social Science	40	0	32	68
Reading Vocabulary	30	0	37	63	P Computation in Context	16	0	38	62	C History	10	0	39	61
C Synonyms	12	0	20	80	P Computation/Symbolic Notation	16	3	27	70	C Geography	10	0	61	39
C Multiple Meaning Words	9	3	31	66	P Thinking Skills	16	0	38	62	C Political Science	10	0	45	55
C Context Clues	9	9	51	40	Language Mechanics	24	0	61	39	C Economics	10	3	29	68
P Thinking Skills	18	6	31	63	C Capitalization	8	8	63	29	P App. of Knowledge/Comp.	14	0	32	68
Reading Comprehension	54	6	31	63	C Usage	8	3	29	68	P Org., Summ. & Interp. of Info.	15	0	45	55
C Literary	18	3	29	69	C Punctuation	8	3	61	37	P Determination of Cause/Effect	11	3	55	42
C Informational	18	6	34	60	Language Expression	24	0	39	61	P Thinking Skills	20	3	29	68
C Functional	18	6	43	51	C Sentence Structure	8	5	32	63	C Listening	40	0	47	53
P Initial Understanding	12	6	34	60	C Prewriting	5	0	39	61	C Vocabulary	10	3	24	74
P Interpretation	20	3	29	69	C Content and Organization	11	5	53	42	C Comprehension	30	0	53	47
P Critical Analysis	12	3	43	54	P Thinking Skills	12	0	39	61	P Initial Understanding	8	0	55	45
P Strategies	10	3	31	66	Spelling	40	0	53	47	P Interpretation	12	0	47	53
P Thinking Skills	42	6	29	66	C Phonetic Principles	18	11	45	45	P Analysis	7	0	37	63
Mathematics Problem Solving	48	0	24	76	C Structural Principles	10	3	79	18	P Strategies	3	32	32	37
C Number Sense & Operations	24	3	22	76	C No Mistake	7	5	32	63	C Literary	10	0	47	53
C Patterns/Relationships/Algebra	6	0	35	65	C Homophones	5	0	32	68	C Informational	10	5	42	53
C Data, Statistics & Probability	8	0	19	81	Science	40	0	45	55	C Functional	10	5	74	21
C Geometry & Measurement	10	0	49	51	C Life	11	0	37	63	P Thinking Skills	22	3	39	58
P Communication & Representation	6	0	41	59	C Physical	11	3	63	34	P Thinking Skills	190	0	38	62
P Estimation	8	5	30	65	C Earth	11	0	29	71					
P Mathematical Connections	21	0	30	70	C Nature of Science	7	3	47	50					
P Reasoning & Problem Solving	13	0	24	76	P Models	14	0	34	66					
P Thinking Skills	40	0	27	73	P Constancy	13	0	55	45					

The *Stanford Achievement Test Series, Tenth Edition (Stanford 10)*, includes a single reporting system designed to present scores over the entire *Stanford 10* series from the SESAT to the TASK levels. The reports also include results for the *Otis-Lennon School Ability Test[®], Eighth Edition (OLSAT[®]0)*, when it is administered in combination with the *Stanford 10*.

STUDENT REPORTS

- Various reports provide information about individual students' scores for subtests, totals, and/or clusters.
- The student's name appears at the top of the report for high visibility and quick recognition.
- The classroom teacher's name, school, and district appear in the upper portion of the report for easy identification.
- Grade and test date are printed at the top center of the score reports.
- Stanford 10 and OLSAT norms (Fall, Midyear, or Spring), test level, and form are printed at the bottom of the reports.
- On some reports, when percentile ranks are reported, grade percentile bands are reported on a bar graph. These bands, which span ± 1 standard error of measurement, permit quick identification of student's relative strengths and weaknesses by subject area. In general, percentile bands that do not overlap may be considered to represent significant differences in performance.
- On some reports, short paragraphs for each subject area tested describe the subtest, your student's performance, and provide suggestions for further learning at home.
- On some reports, performance on clusters is reported as Below Average, Average, or Above Average. This reporting method enables the teacher to identify relative strengths and weaknesses within a content area. Clusters may be content clusters or process clusters. Number Possible, Number Attempted, and Number Correct for each cluster are also reported.
- OLSAT scores are reported for Total, Verbal, and Nonverbal when OLSAT is processed in combination with Stanford 10.
- On some reports, the Lexile[™] measure is reported. The Lexile[™] measure, converted from the student's Reading Comprehension subtest score, is an indicator of the student's reading level and can be used to match the student to appropriate text.

ABBREVIATIONS

AAC = Achievement/Ability Comparison	PHS = Post High School
AVG = Average	PK = Pre-Kindergarten
GE = Grade Equivalent	PR-S = Percentile Rank-Stanine
LVL = Level	Q1 = First Quartile
N, % = Number, Percent	Q3 = Third Quartile
NATL or NATL = National	NP/NA/NC = Number Possible/Number Attempted/Number Correct
NC = Number Correct	SAI = School Ability Index
NCE = Normal Curve Equivalent	SD or STANDARD DEV = Standard Deviation
N-COUNT = Number of Students	SS = Scaled Score
OLSAT = Otis-Lennon School Ability Test [®] , Eighth Edition	UG = Ungraded
P10 = 10th Percentile	
P90 = 90th Percentile	

GROUP REPORTS

- Student Reports may be accompanied by group summaries that are available for class, school, or district.
- The group name appears at the top of the report for high visibility and quick recognition.
- The school and/or district names appear in the upper portion of the report for easy identification.
- Grade and test date are printed at the top center of the score reports.
- Stanford 10 and OLSAT norms (Fall, Midyear, or Spring), test level, and form are printed at the bottom of the reports.
- Summaries of the score types chosen are reported for overall performance.
- On some reports, when percentile ranks are reported, a bar graph in terms of Grade Percentile Ranks permits quick identification of the group's relative strengths and weaknesses by subject area.
- On some reports, a summary of the group's performance on multiple-choice clusters is reported in terms of percent of students in the group scoring in the Below Average, Average, or Above Average categories. This reporting method enables the teacher to identify relative strengths and weaknesses within a content area. Clusters may be content clusters or process clusters. Number of Items for each cluster is also reported.
- OLSAT scores are summarized and reported for Total, Verbal, and Nonverbal when OLSAT is processed in combination with Stanford 10.

FOOTNOTES

DNA = Not available because the student did not attempt the test or all components of a total score
 H✓ = "Average" but the highest possible rating for this cluster for this grade
 INV = Invalidated subtest.
 L✓ = "Average" but the lowest possible rating for this cluster for this grade
 NA = Scaled Scores not available for Battery.
 NA¹ = Not available because number correct (raw score) of zero does not yield any derived scores
 NA² = Not available because the student's age is unknown or out of range for the grade
 NA³ = Norms do not exist for this grade because the test was given out of level.
 NA⁴ = Cluster performance ratings are available for national norms only.

NA⁵ = Number correct (raw score) not available for mixed levels.
 NA⁶ = Not available because the student's grade was designated Ungraded.
 0¹ = A zero score yields no derived scores
 1 = Statistics do not include students with zero number correct (raw score).
 2 = Excludes students with missing or questionable ages
 3 = Local norms based on fewer than 100 students lack precision and should be interpreted with caution.
 4 = Numbers may vary because mixed-level testing occurred and not all subtests exist at all levels

TYPES, CHARACTERISTICS, AND APPLICATIONS OF SCORES ON SUBTESTS AND DOMAIN TOTALS

Score	Description	Comparable Across			Grades
		Subtests	Forms	Levels	
Number Correct (NC)	The number of questions the student answered correctly. (Interpret only in relation to the set of questions on which the score was earned.)	NO	NO	NO	Only for the same subtest, form, or level
Scaled Score (SS)	Facilitates conversions to other score types and suitable for studying change in performance over time	NO	YES	YES	Only for the same subtest
Percentile Rank (PR)	Indicates the relative standing of a student in comparison with students in the same grade in the norm (reference) group who took the test at a comparable time.	YES	YES	YES	NO
Stanine (S)	Standard score with a mean of 5 and a standard deviation of 2. Stanines of 1, 2, 3 are below average; 4, 5, 6 are average; and 7, 8, 9 are above average. (Useful for interpreting score profiles.)	YES	YES	YES	NO
Normal Curve Equivalent (NCE)	Direct conversion from percentile rank. (Standard score resulting from the division of the normal curve into 99 equal units.)	YES	YES	YES	NO
Grade Equivalent (GE)	Grade placement at which the number correct (raw score) is average.	YES	YES	YES	NO
Achievement/Ability Comparison (AAC)	Evaluates a student's performance on a Stanford subtest or domain total in relation to the performance of others with the same level of ability. (An AAC of "High" refers to the top 23% of the comparison group, "Low" to the lowest 23%, and "Middle" to the middle 54%.)	YES	YES	YES	NO
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.	NO	YES	YES	Only for the same subtest

SCORES ON BATTERY TOTALS AND COMPOSITES

Score	Description
Number Correct (NC)	The sum of all subtest number correct scores.
Equivalent (NCE) Normal Curve	The average of the subtest NCEs across all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Grade Equivalent (GE)	The median GE across all subtests taken.
Percentile Rank (PR) Achievement/Ability Comparison (AAC)	Obtained from the mean NCE. The average of the subtest AACs, obtained from subtest AAC ranges.
Stanine (S)	Determined from the percentile rank.

Please refer to the *Stanford 10 Spring Multilevel Norms Book* or the *Stanford 10 Fall Multilevel Norms Book* for detailed explanations and guidance related to scores.



Master List Summary | WESTLAKE ACADEMY



DISTRICT: WESTLAKE ACADEMY

GRADE: 06

TEST DATE: 10/09

Total Number Tested 38	Reading			Mathematics			Language			Spelling	Science	Social Science	Listening	Thinking Skills	Battery Totals	
	Total Reading	Reading Vocabulary	Reading Comprehension	Total Mathematics	Mathematics Problem Solving	Mathematics Procedures	Language	Language Mechanics	Language Expression						Basic Battery	Complete Battery
Number Possible	84	30	54	80	48	32	48	24	24	40	40	40	40	191	292	372
Number Tested	37	37	37	36	37	36	36	36	36	36	38	38	38	35	35	35
Mean Number Correct	74.0	27.5	46.5	66.1	41.1	25.0	40.8	20.1	20.7	33.0	31.1	32.5	31.5	160.9	246.3	310.1
Mean Scaled Score	702.5	707.0	702.4	695.6	702.3	688.9	686.6	680.7	693.7	687.2	681.6	678.6	670.7	688.9	NA	NA
National PR-S of the Mean National NCE	89-8	85-7	88-7	88-7	89-8	82-7	84-7	79-7	86-7	80-7	84-7	83-7	84-7	91-8	85-7	85-7
Mean National NCE	76.1	71.7	75.1	74.6	76.3	69.7	70.9	66.7	73.0	67.8	71.0	69.8	70.9	77.9	72.3	71.9
At/Above the 50th National PR																
Number	36	34	36	33	36	31	33	31	34	31	33	35	33	34	33	33
Percent	97	92	97	92	97	86	92	86	94	86	87	92	87	97	94	94

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INDIVIDUAL SCORE TYPES FOR SUBTESTS AND DOMAIN TOTALS

Score Type	Description
Number Correct (NC)	A content-referenced score indicating the number of questions answered correctly.
Scaled Score (SS)	A standard score derived from the Number Correct (Raw Score) that indicates performance on all forms and levels of a given Stanford 10 subtest along a single, comparable scale. The Scaled Score facilitates conversions to other score types and the study of changes in performance from grade to grade.
Percentile Rank (PR)	A standard score derived from the Scaled Score that indicates the relative standing of a student in comparison to same-grade students in the norm (reference) group who took the same subtest at a comparable time. For example, a PR of 75 means that for a particular subtest the student performed as well as or better than 75% of the students in the reference group.
Stanine (S)	A standard score derived from the Percentile Rank that ranges from 1 to 9, with a mean of 5 and a standard deviation of 2. Like Percentile Ranks, Stanines indicate a student's relative standing with respect to a reference group. Usually, Stanines of 1, 2, and 3 indicate a Below Average performance; 4, 5, and 6 are Average; and 7, 8, and 9 are Above Average.
Grade Equivalent (GE)	A norm-referenced standard score that represents the average performance of students tested in a given month of the school year. Subject to misinterpretation, Grade Equivalents are best used to interpret the performance of groups of students rather than the performance or standing of an individual.
Normal Curve Equivalent (NCE)	A standard score derived from the Percentile Rank that ranges from 1 to 99, with a mean of 50 and a standard deviation of 21.06.
Achievement/Ability Comparison (AAC)	A score that categorizes a student's achievement on a subtest or domain total in relation to the achievement of a comparison group with the same ability as measured by the OLSAT. AAC categories (HIGH, MIDDLE, and LOW) are available only when the OLSAT is administered to the student with the Stanford 10.
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.

INDIVIDUAL SCORE TYPES FOR BATTERY TOTALS AND COMPOSITES

Score Type	Description
Number Correct (NC)	The sum of Number Correct (Raw Scores) for all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Percentile Rank (PR)	The Percentile Ranks (PRs) for all subtests taken that corresponds to the mean NCE.
Stanine (S)	Derived from the Percentile Rank (PR).
Grade Equivalent (GE)	The median of GEs for all subtests taken. (Half of the scores are above the median, half below.)
Normal Curve Equivalent (NCE)	The mean of NCEs for all subtests taken.
Achievement/Ability Comparison (AAC)	The mean of AAC ranges for all subtests taken.

ABBREVIATIONS

AAC = Achievement/Ability Comparison
 AVG = Average
 GE = Grade Equivalent
 INV = Invalid Test
 LVL = Level
 N, % = Number, Percent
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 N-COUNT = Number of Students
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 P10 = 10th Percentile
 P90 = 90th Percentile

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 NP/NA/NC = Number Possible/Number Attempted/
 Number Correct
 SAI = School Ability Index
 SD or STANDARD DEV = Standard Deviation
 SS = Scaled Score
 UG = Ungraded

GROUP SCORE TYPES ON TEST ITEMS

Score Type	Description
p-Value	The percentage of a group of students answering a test question correctly.

GROUP SCORE TYPES ON TESTS AND TOTALS

Score	Type Description
Mean Number Correct	The average of Number Correct (Raw Scores) earned by a group taking a given subtest or domain total.
Mean Scaled Score	The average of Scaled Scores earned by a group taking a given subtest or domain total.
Mean NCE	The average of NCEs earned by a group taking a given subtest or domain total.
Mean SAI	The average of SAIs earned by a group taking a given subtest or domain total.
Standard Deviation	A measure of the variability in a group of scores.
National PR-S of the Mean NCE	An indicator of the performance of the typical student in the group in terms of Percentile Rank. Since percentile ranks cannot be averaged, all of the percentile ranks in a group of scores are converted to NCEs, the NCEs are averaged, and the mean NCE is converted to a percentile rank.
Median Grade Equivalent	An indicator of the performance of the typical student in the group in terms of grade equivalents. Since grade equivalents cannot be averaged, the GE that divides the group exactly in half is used.
Mean p-Value	The average of the p-values for all items in a cluster, subtest, or domain total.
National Percentile Rank Summary	The number and percent of students in a group falling into each quartile of the score distribution. May also include the top and bottom 10% of the distribution.
Achievement/Ability Comparison Summary	The percent of students in each OLSAT grade-based stanine earning AACs of High, Middle, and Low. In a normally distributed set of scores, you would expect to find 23% of students earning AACs of High, 54% earning AACs of Middle, and 23% of students earning AACs of Low.

NORMS

Norms Type	Description
National Norms	Comparisons of student performance based on the national standardization sample.
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OLSAT Grade Norms	Comparisons of student performance on OLSAT based on student grade in school, regardless of age.

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Group Report | WESTLAKE ACADEMY

National Comparison



GRADE: 06

TEST DATE: 10/09

DISTRICT: WESTLAKE ACADEMY

Subtests and Totals	Number Tested	Mean Number Correct	Mean Scaled Score	National Individual PR-S	Mean National NCE	National Grade Percentile Ranks					
						1	10	30	50	70	90
Total Reading	37	74.0	702	89-8	76.1						
Reading Vocabulary	37	27.5	707	85-7	71.7						
Reading Comprehension	37	46.5	702	88-7	75.1						
Total Mathematics	36	66.1	696	88-7	74.6						
Mathematics Problem Solving	37	41.1	702	89-8	76.3						
Mathematics Procedures	36	25.0	689	82-7	69.7						
Language	36	40.8	687	84-7	70.9						
Language Mechanics	36	20.1	681	79-7	66.7						
Language Expression	36	20.7	694	86-7	73.0						
Spelling	36	33.0	687	80-7	67.8						
Science	38	31.1	682	84-7	71.0						
Social Science	38	32.5	679	83-7	69.8						
Listening	38	31.5	671	84-7	70.9						
Thinking Skills	35	160.9	689	91-8	77.9						
Basic Battery	35	246.3	NA	85-7	72.3						
Complete Battery	35	310.1	NA	85-7	71.9						

About This Group's Performance:

This group recently took the *Stanford Achievement Test, Tenth Edition* (Stanford 10). This test is one measure of their achievement. This report describes the performance of the typical student in this group compared to students in the same grade across the nation. The Battery scores provide an overall indication of this group's performance. The typical student in this group scored in the upper range for the grade, which means that group performance was Above Average. The chart below shows this group's performance in each subject area tested.

Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each		
		Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg
C Reading Vocabulary	30	3	35	62	P Mathematics Procedures (cont.)					C Social Science	40	3	37	61
C Synonyms	12	3	27	70	P Computation in Context	16	3	33	64	C History	10	5	47	47
C Multiple Meaning Words	9	3	41	57	P Computation/Symbolic Notation	16	6	39	56	C Geography	10	3	58	39
C Context Clues	9	5	30	65	P Thinking Skills	16	3	33	64	C Political Science	10	3	34	63
P Thinking Skills	18	0	32	68	C Language Mechanics	24	3	42	56	C Economics	10	3	39	58
C Reading Comprehension	54	0	19	81	C Capitalization	8	8	61	31	P App. of Knowledge/Comp.	16	3	39	58
C Literary	18	0	35	65	C Usage	8	6	39	56	P Org., Summ. & Interp. of Info.	13	3	29	68
C Informational	18	0	22	78	C Punctuation	8	3	53	44	P Determination of Cause/Effect	11	3	26	71
C Functional	18	0	16	84	C Language Expression	24	3	28	69	P Thinking Skills	20	3	32	66
P Initial Understanding	12	0	35	65	C Sentence Structure	9	6	31	64	C Listening	40	5	29	66
P Interpretation	20	0	30	70	C Prewriting	5	3	25	72	C Vocabulary	10	3	34	63
P Critical Analysis	12	0	30	70	C Content and Organization	10	0	36	64	C Comprehension	30	5	24	71
P Strategies	10	0	19	81	P Thinking Skills	12	3	14	83	P Initial Understanding	8	8	39	53
P Thinking Skills	42	0	19	81	C Spelling	40	6	33	61	P Interpretation	12	5	47	47
C Mathematics Problem Solving	48	0	22	78	C Phonetic Principles	18	6	25	69	P Analysis	7	0	32	68
C Number Sense & Operations	24	0	24	76	C Structural Principles	10	6	42	53	P Strategies	3	18	45	37
C Patterns/Relationships/Algebra	6	0	24	76	C No Mistake	7	11	36	53	C Literary	10	5	66	29
C Data, Statistics & Probability	8	3	30	68	C Homophones	5	8	50	42	C Informational	10	3	29	68
C Geometry & Measurement	10	0	14	86	C Science	40	0	26	74	C Functional	10	8	21	71
P Communication & Representation	6	5	35	59	C Life	11	8	29	63	P Thinking Skills	22	0	32	68
P Estimation	10	3	19	78	C Physical	11	3	32	66	C Thinking Skills	191	0	17	83
P Mathematical Connections	19	0	19	81	C Earth	11	3	39	58					
P Reasoning & Problem Solving	13	0	49	51	C Nature of Science	7	0	47	53					
P Thinking Skills	41	0	11	89	P Models	14	0	42	58					
C Mathematics Procedures	32	6	28	67	P Constancy	13	3	26	71					
C Computation w/Whole Numbers	10	8	33	58	P Form & Function	13	5	32	63					
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ABBREVIATIONS

AAC = Achievement/Ability Comparison	PHS = Post High School
AVG = Average	PK = Pre-Kindergarten
GE = Grade Equivalent	PR-S = Percentile Rank-Stanine
LVL = Level	Q1 = First Quartile
N, % = Number, Percent	Q3 = Third Quartile
NATL or NATL = National	NP/NA/NC = Number Possible/Number Attempted/Number Correct
NC = Number Correct	SAI = School Ability Index
NCE = Normal Curve Equivalent	SD or STANDARD DEV = Standard Deviation
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TYPES, CHARACTERISTICS, AND APPLICATIONS OF SCORES ON SUBTESTS AND DOMAIN TOTALS

Score	Description	Comparable Across			Grades
		Subtests	Forms	Levels	
Number Correct (NC)	The number of questions the student answered correctly. (Interpret only in relation to the set of questions on which the score was earned.)	NO	NO	NO	Only for the same subtest, form, or level
Scaled Score (SS)	Facilitates conversions to other score types and suitable for studying change in performance over time	NO	YES	YES	Only for the same subtest
Percentile Rank (PR)	Indicates the relative standing of a student in comparison with students in the same grade in the norm (reference) group who took the test at a comparable time.	YES	YES	YES	NO
Stanine (S)	Standard score with a mean of 5 and a standard deviation of 2. Stanines of 1, 2, 3 are below average; 4, 5, 6 are average; and 7, 8, 9 are above average. (Useful for interpreting score profiles.)	YES	YES	YES	NO
Normal Curve Equivalent (NCE)	Direct conversion from percentile rank. (Standard score resulting from the division of the normal curve into 99 equal units.)	YES	YES	YES	NO
Grade Equivalent (GE)	Grade placement at which the number correct (raw score) is average.	YES	YES	YES	NO
Achievement/Ability Comparison (AAC)	Evaluates a student's performance on a Stanford subtest or domain total in relation to the performance of others with the same level of ability. (An AAC of "High" refers to the top 23% of the comparison group, "Low" to the lowest 23%, and "Middle" to the middle 54%.)	YES	YES	YES	NO
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.	NO	YES	YES	Only for the same subtest

SCORES ON BATTERY TOTALS AND COMPOSITES

Score	Description
Number Correct (NC)	The sum of all subtest number correct scores.
Equivalent (NCE) Normal Curve	The average of the subtest NCEs across all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Grade Equivalent (GE)	The median GE across all subtests taken.
Percentile Rank (PR) Achievement/Ability Comparison (AAC)	Obtained from the mean NCE. The average of the subtest AACs, obtained from subtest AAC ranges.
Stanine (S)	Determined from the percentile rank.

Please refer to the *Stanford 10 Spring Multilevel Norms Book* or the *Stanford 10 Fall Multilevel Norms Book* for detailed explanations and guidance related to scores.



Master List Summary | WESTLAKE ACADEMY



DISTRICT: WESTLAKE ACADEMY

GRADE: 07

TEST DATE: 10/09

Total Number Tested 39	Reading			Mathematics			Language			Spelling	Science	Social Science	Listening	Thinking Skills	Battery Totals	
	Total Reading	Reading Vocabulary	Reading Comprehension	Total Mathematics	Mathematics Problem Solving	Mathematics Procedures	Language	Language Mechanics	Language Expression						Basic Battery	Complete Battery
Number Possible	84	30	54	80	48	32	48	24	24	40	40	40	40	192	292	372
Number Tested	35	35	35	38	38	38	39	39	39	39	38	38	38	33	33	33
Mean Number Correct	74.5	26.9	47.5	67.0	40.1	27.0	40.9	20.1	20.8	32.5	33.4	31.0	31.7	159.8	246.3	310.3
Mean Scaled Score	713.6	712.1	714.8	716.9	715.1	723.8	689.7	686.5	695.4	695.2	697.1	688.8	681.4	698.2	NA	NA
National PR-S of the Mean National NCE	90-8	79-7	90-8	92-8	90-8	90-8	84-7	80-7	82-7	82-7	89-8	86-7	81-7	92-8	86-7	86-7
Mean National NCE	76.5	67.0	77.5	79.0	76.7	77.1	70.8	67.9	69.7	69.3	75.9	73.0	68.9	79.2	72.5	72.8
At/Above the 50th National PR																
Number	34	31	34	38	38	38	38	38	38	33	37	38	36	33	33	33
Percent	97	89	97	100	100	100	97	97	97	85	97	100	95	100	100	100

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INDIVIDUAL SCORE TYPES FOR SUBTESTS AND DOMAIN TOTALS

Score Type	Description
Number Correct (NC)	A content-referenced score indicating the number of questions answered correctly.
Scaled Score (SS)	A standard score derived from the Number Correct (Raw Score) that indicates performance on all forms and levels of a given Stanford 10 subtest along a single, comparable scale. The Scaled Score facilitates conversions to other score types and the study of changes in performance from grade to grade.
Percentile Rank (PR)	A standard score derived from the Scaled Score that indicates the relative standing of a student in comparison to same-grade students in the norm (reference) group who took the same subtest at a comparable time. For example, a PR of 75 means that for a particular subtest the student performed as well as or better than 75% of the students in the reference group.
Stanine (S)	A standard score derived from the Percentile Rank that ranges from 1 to 9, with a mean of 5 and a standard deviation of 2. Like Percentile Ranks, Stanines indicate a student's relative standing with respect to a reference group. Usually, Stanines of 1, 2, and 3 indicate a Below Average performance; 4, 5, and 6 are Average; and 7, 8, and 9 are Above Average.
Grade Equivalent (GE)	A norm-referenced standard score that represents the average performance of students tested in a given month of the school year. Subject to misinterpretation, Grade Equivalents are best used to interpret the performance of groups of students rather than the performance or standing of an individual.
Normal Curve Equivalent (NCE)	A standard score derived from the Percentile Rank that ranges from 1 to 99, with a mean of 50 and a standard deviation of 21.06.
Achievement/Ability Comparison (AAC)	A score that categorizes a student's achievement on a subtest or domain total in relation to the achievement of a comparison group with the same ability as measured by the OLSAT. AAC categories (HIGH, MIDDLE, and LOW) are available only when the OLSAT is administered to the student with the Stanford 10.
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.

INDIVIDUAL SCORE TYPES FOR BATTERY TOTALS AND COMPOSITES

Score Type	Description
Number Correct (NC)	The sum of Number Correct (Raw Scores) for all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Percentile Rank (PR)	The Percentile Ranks (PRs) for all subtests taken that corresponds to the mean NCE.
Stanine (S)	Derived from the Percentile Rank (PR).
Grade Equivalent (GE)	The median of GEs for all subtests taken. (Half of the scores are above the median, half below.)
Normal Curve Equivalent (NCE)	The mean of NCEs for all subtests taken.
Achievement/Ability Comparison (AAC)	The mean of AAC ranges for all subtests taken.

ABBREVIATIONS

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 SD or STANDARD DEV = Standard Deviation
 SS = Scaled Score
 UG = Ungraded

GROUP SCORE TYPES ON TEST ITEMS

Score Type	Description
p-Value	The percentage of a group of students answering a test question correctly.

GROUP SCORE TYPES ON TESTS AND TOTALS

Score	Type Description
Mean Number Correct	The average of Number Correct (Raw Scores) earned by a group taking a given subtest or domain total.
Mean Scaled Score	The average of Scaled Scores earned by a group taking a given subtest or domain total.
Mean NCE	The average of NCEs earned by a group taking a given subtest or domain total.
Mean SAI	The average of SAIs earned by a group taking a given subtest or domain total.
Standard Deviation	A measure of the variability in a group of scores.
National PR-S of the Mean NCE	An indicator of the performance of the typical student in the group in terms of Percentile Rank. Since percentile ranks cannot be averaged, all of the percentile ranks in a group of scores are converted to NCEs, the NCEs are averaged, and the mean NCE is converted to a percentile rank.
Median Grade Equivalent	An indicator of the performance of the typical student in the group in terms of grade equivalents. Since grade equivalents cannot be averaged, the GE that divides the group exactly in half is used.
Mean p-Value	The average of the p-values for all items in a cluster, subtest, or domain total.
National Percentile Rank Summary	The number and percent of students in a group falling into each quartile of the score distribution. May also include the top and bottom 10% of the distribution.
Achievement/Ability Comparison Summary	The percent of students in each OLSAT grade-based stanine earning AACs of High, Middle, and Low. In a normally distributed set of scores, you would expect to find 23% of students earning AACs of High, 54% earning AACs of Middle, and 23% of students earning AACs of Low.

NORMS

Norms Type	Description
National Norms	Comparisons of student performance based on the national standardization sample.
Local Norms	Comparisons of student performance based on a local (district or state) reference group.
OLSAT Age Norms	Comparisons of student performance on OLSAT based on student age, regardless of grade in school. Includes the School Ability Index (SAI).
OLSAT Grade Norms	Comparisons of student performance on OLSAT based on student grade in school, regardless of age.

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Group Report | WESTLAKE ACADEMY

National Comparison



About This Group's Performance:

This group recently took the *Stanford Achievement Test, Tenth Edition* (Stanford 10). This test is one measure of their achievement. This report describes the performance of the typical student in this group compared to students in the same grade across the nation. The Battery scores provide an overall indication of this group's performance. The typical student in this group scored in the upper range for the grade, which means that group performance was Above Average. The chart below shows this group's performance in each subject area tested.

DISTRICT: WESTLAKE ACADEMY

GRADE: 07

TEST DATE: 10/09

Subtests and Totals	Number Tested	Mean Number Correct	Mean Scaled Score	National Individual PR-S	Mean National NCE	National Grade Percentile Ranks					
						1	10	30	50	70	90
Total Reading	35	74.5	714	90-8	76.5						
Reading Vocabulary	35	26.9	712	79-7	67.0						
Reading Comprehension	35	47.5	715	90-8	77.5						
Total Mathematics	38	67.0	717	92-8	79.0						
Mathematics Problem Solving	38	40.1	715	90-8	76.7						
Mathematics Procedures	38	27.0	724	90-8	77.1						
Language	39	40.9	690	84-7	70.8						
Language Mechanics	39	20.1	687	80-7	67.9						
Language Expression	39	20.8	695	82-7	69.7						
Spelling	39	32.5	695	82-7	69.3						
Science	38	33.4	697	89-8	75.9						
Social Science	38	31.0	689	86-7	73.0						
Listening	38	31.7	681	81-7	68.9						
Thinking Skills	33	159.8	698	92-8	79.2						
Basic Battery	33	246.3	NA	86-7	72.5						
Complete Battery	33	310.3	NA	86-7	72.8						

Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each		
		Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg
C Reading Vocabulary	30	0	51	49	P Mathematics Procedures (cont.)					C Social Science	40	0	29	71
C Synonyms	12	3	37	60	P Computation in Context	16	0	32	68	C History	10	0	45	55
C Multiple Meaning Words	9	9	51	40	P Computation/Symbolic Notation	16	0	5	95	C Geography	10	0	45	55
C Context Clues	9	3	37	60	P Thinking Skills	16	0	32	68	C Political Science	10	0	29	71
P Thinking Skills	18	9	23	69	C Language Mechanics	24	0	31	69	C Economics	10	0	39	61
C Reading Comprehension	54	0	14	86	C Capitalization	8	0	36	64	P App. of Knowledge/Comp.	17	0	34	66
C Literary	18	0	20	80	C Usage	8	3	49	49	P Org., Summ. & Interp. of Info.	13	0	37	63
C Informational	18	0	20	80	C Punctuation	8	3	15	82	P Determination of Cause/Effect	10	0	50	50
C Functional	18	0	26	74	C Language Expression	24	0	41	59	P Thinking Skills	21	0	45	55
P Initial Understanding	12	0	40	60	C Sentence Structure	10	0	33	67	C Listening	40	0	39	61
P Interpretation	20	0	23	77	C Prewriting	5	0	69	31	C Vocabulary	10	3	29	68
P Critical Analysis	12	0	20	80	C Content and Organization	9	0	36	64	C Comprehension	30	0	50	50
P Strategies	10	0	63	37	P Thinking Skills	12	0	26	74	P Initial Understanding	8	8	53	39
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Normal Curve Equivalent (NCE)	Direct conversion from percentile rank. (Standard score resulting from the division of the normal curve into 99 equal units.)	YES	YES	YES	NO
Grade Equivalent (GE)	Grade placement at which the number correct (raw score) is average.	YES	YES	YES	NO
Achievement/Ability Comparison (AAC)	Evaluates a student's performance on a Stanford subtest or domain total in relation to the performance of others with the same level of ability. (An AAC of "High" refers to the top 23% of the comparison group, "Low" to the lowest 23%, and "Middle" to the middle 54%.)	YES	YES	YES	NO
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.	NO	YES	YES	Only for the same subtest

SCORES ON BATTERY TOTALS AND COMPOSITES

Score	Description
Number Correct (NC)	The sum of all subtest number correct scores.
Equivalent (NCE) Normal Curve	The average of the subtest NCEs across all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Grade Equivalent (GE)	The median GE across all subtests taken.
Percentile Rank (PR) Achievement/Ability Comparison (AAC)	Obtained from the mean NCE. The average of the subtest AACs, obtained from subtest AAC ranges.
Stanine (S)	Determined from the percentile rank.

Please refer to the *Stanford 10 Spring Multilevel Norms Book* or the *Stanford 10 Fall Multilevel Norms Book* for detailed explanations and guidance related to scores.



Master List Summary | WESTLAKE ACADEMY



DISTRICT: WESTLAKE ACADEMY

GRADE: 08

TEST DATE: 10/09

Total Number Tested 37	Reading			Mathematics			Language			Spelling	Science	Social Science	Listening	Thinking Skills	Battery Totals	
	Total Reading	Reading Vocabulary	Reading Comprehension	Total Mathematics	Mathematics Problem Solving	Mathematics Procedures	Language	Language Mechanics	Language Expression						Basic Battery	Complete Battery
Number Possible	84	30	54	80	48	32	48	24	24	40	40	40	40	193	292	372
Number Tested	33	33	33	35	35	35	36	36	36	36	36	36	36	32	32	32
Mean Number Correct	72.9	27.6	45.3	67.4	40.9	26.5	41.8	20.2	21.6	33.5	33.6	29.3	32.2	161.1	247.0	309.5
Mean Scaled Score	719.9	743.8	711.8	740.7	744.8	738.0	704.7	697.9	714.5	718.7	710.8	695.5	688.7	713.9	NA	NA
National PR-S of the Mean National NCE	87-7	88-7	85-7	93-8	94-8	88-7	84-7	77-7	84-7	86-7	91-8	81-7	83-7	92-8	87-7	87-7
Mean National NCE	74.1	74.6	72.1	81.2	82.5	74.9	70.7	65.7	71.1	72.9	78.5	68.8	70.0	80.2	73.6	73.5
At/Above the 50th National PR																
Number	32	32	32	34	35	33	35	34	36	33	35	35	32	32	31	31
Percent	97	97	97	97	100	94	97	94	100	92	97	97	89	100	97	97

The *Stanford Achievement Test Series, Tenth Edition (Stanford 10)*, includes a single reporting system designed to present scores over the entire *Stanford 10* series from the SESAT to the TASK levels. The reports also include results for the *Otis-Lennon School Ability Test®, Eighth Edition (OLSAT)*, when it is administered in combination with the *Stanford 10*.

INDIVIDUAL SCORE TYPES FOR SUBTESTS AND DOMAIN TOTALS

Score Type	Description
Number Correct (NC)	A content-referenced score indicating the number of questions answered correctly.
Scaled Score (SS)	A standard score derived from the Number Correct (Raw Score) that indicates performance on all forms and levels of a given Stanford 10 subtest along a single, comparable scale. The Scaled Score facilitates conversions to other score types and the study of changes in performance from grade to grade.
Percentile Rank (PR)	A standard score derived from the Scaled Score that indicates the relative standing of a student in comparison to same-grade students in the norm (reference) group who took the same subtest at a comparable time. For example, a PR of 75 means that for a particular subtest the student performed as well as or better than 75% of the students in the reference group.
Stanine (S)	A standard score derived from the Percentile Rank that ranges from 1 to 9, with a mean of 5 and a standard deviation of 2. Like Percentile Ranks, Stanines indicate a student's relative standing with respect to a reference group. Usually, Stanines of 1, 2, and 3 indicate a Below Average performance; 4, 5, and 6 are Average; and 7, 8, and 9 are Above Average.
Grade Equivalent (GE)	A norm-referenced standard score that represents the average performance of students tested in a given month of the school year. Subject to misinterpretation, Grade Equivalents are best used to interpret the performance of groups of students rather than the performance or standing of an individual.
Normal Curve Equivalent (NCE)	A standard score derived from the Percentile Rank that ranges from 1 to 99, with a mean of 50 and a standard deviation of 21.06.
Achievement/Ability Comparison (AAC)	A score that categorizes a student's achievement on a subtest or domain total in relation to the achievement of a comparison group with the same ability as measured by the OLSAT. AAC categories (HIGH, MIDDLE, and LOW) are available only when the OLSAT is administered to the student with the Stanford 10.
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.

INDIVIDUAL SCORE TYPES FOR BATTERY TOTALS AND COMPOSITES

Score Type	Description
Number Correct (NC)	The sum of Number Correct (Raw Scores) for all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Percentile Rank (PR)	The Percentile Ranks (PRs) for all subtests taken that corresponds to the mean NCE.
Stanine (S)	Derived from the Percentile Rank (PR).
Grade Equivalent (GE)	The median of GEs for all subtests taken. (Half of the scores are above the median, half below.)
Normal Curve Equivalent (NCE)	The mean of NCEs for all subtests taken.
Achievement/Ability Comparison (AAC)	The mean of AAC ranges for all subtests taken.

ABBREVIATIONS

AAC = Achievement/Ability Comparison
 AVG = Average
 GE = Grade Equivalent
 INV = Invalid Test
 LVL = Level
 N, % = Number, Percent
 NATL or NATL = National
 NCE = Normal Curve Equivalent
 N-COUNT = Number of Students
 OLSAT = *Otis-Lennon School Ability Test®, Eighth Edition*
 P10 = 10th Percentile
 P90 = 90th Percentile

PHS = Post High School
 PK = Pre-Kindergarten
 PR-S = Percentile Rank-Stanine
 Q1 = First Quartile
 Q3 = Third Quartile
 NP/NA/NC = Number Possible/Number Attempted/
 Number Correct
 SAI = School Ability Index
 SD or STANDARD DEV = Standard Deviation
 SS = Scaled Score
 UG = Ungraded

GROUP SCORE TYPES ON TEST ITEMS

Score Type	Description
p-Value	The percentage of a group of students answering a test question correctly.

GROUP SCORE TYPES ON TESTS AND TOTALS

Score	Type Description
Mean Number Correct	The average of Number Correct (Raw Scores) earned by a group taking a given subtest or domain total.
Mean Scaled Score	The average of Scaled Scores earned by a group taking a given subtest or domain total.
Mean NCE	The average of NCEs earned by a group taking a given subtest or domain total.
Mean SAI	The average of SAIs earned by a group taking a given subtest or domain total.
Standard Deviation	A measure of the variability in a group of scores.
National PR-S of the Mean NCE	An indicator of the performance of the typical student in the group in terms of Percentile Rank. Since percentile ranks cannot be averaged, all of the percentile ranks in a group of scores are converted to NCEs, the NCEs are averaged, and the mean NCE is converted to a percentile rank.
Median Grade Equivalent	An indicator of the performance of the typical student in the group in terms of grade equivalents. Since grade equivalents cannot be averaged, the GE that divides the group exactly in half is used.
Mean p-Value	The average of the p-values for all items in a cluster, subtest, or domain total.
National Percentile Rank Summary	The number and percent of students in a group falling into each quartile of the score distribution. May also include the top and bottom 10% of the distribution.
Achievement/Ability Comparison Summary	The percent of students in each OLSAT grade-based stanine earning AACs of High, Middle, and Low. In a normally distributed set of scores, you would expect to find 23% of students earning AACs of High, 54% earning AACs of Middle, and 23% of students earning AACs of Low.

NORMS

Norms Type	Description
National Norms	Comparisons of student performance based on the national standardization sample.
Local Norms	Comparisons of student performance based on a local (district or state) reference group.
OLSAT Age Norms	Comparisons of student performance on OLSAT based on student age, regardless of grade in school. Includes the School Ability Index (SAI).
OLSAT Grade Norms	Comparisons of student performance on OLSAT based on student grade in school, regardless of age.

FOOTNOTES

DNA = Not available because the student did not attempt the test or all components of a total score.
 H✓ = "Average," but the highest possible rating for this cluster for this grade.
 INV = Invalidated subtest
 L✓ = "Average," but the lowest possible rating for this cluster for this grade.
 NA = Scaled Scores not available for Battery.
 NA¹ = Not available because number correct (raw score) of zero does not yield any derived scores.
 NA² = Not available because the student's age is unknown or out of range for the grade.
 NA³ = Norms do not exist for this grade because the test was given out of level.
 NA⁴ = Cluster performance ratings are available for national norms only.

NA^{*} = Number correct (raw score) not available for mixed levels.
 NA⁹ = Not available because the student's grade was designated Ungraded.
 0¹ = A zero score yields no derived scores.
¹ = Statistics do not include students with zero number correct (raw score).
² = Excludes students with missing or questionable ages.
³ = Local norms based on fewer than 100 students lack precision and should be interpreted with caution.
⁴ = Numbers may vary because mixed-level testing occurred and not all subtests exist at all levels.



Group Report | WESTLAKE ACADEMY

National Comparison



DISTRICT: WESTLAKE ACADEMY

GRADE: 08

TEST DATE: 10/09

Subtests and Totals	Number Tested	Mean Number Correct	Mean Scaled Score	National Individual PR-S	Mean National NCE	National Grade Percentile Ranks					
						1	10	30	50	70	90
Total Reading	33	72.9	720	87-7	74.1	[Bar chart showing percentile ranks]					
Reading Vocabulary	33	27.6	744	88-7	74.6	[Bar chart showing percentile ranks]					
Reading Comprehension	33	45.3	712	85-7	72.1	[Bar chart showing percentile ranks]					
Total Mathematics	35	67.4	741	93-8	81.2	[Bar chart showing percentile ranks]					
Mathematics Problem Solving	35	40.9	745	94-8	82.5	[Bar chart showing percentile ranks]					
Mathematics Procedures	35	26.5	738	88-7	74.9	[Bar chart showing percentile ranks]					
Language	36	41.8	705	84-7	70.7	[Bar chart showing percentile ranks]					
Language Mechanics	36	20.2	698	77-7	65.7	[Bar chart showing percentile ranks]					
Language Expression	36	21.6	715	84-7	71.1	[Bar chart showing percentile ranks]					
Spelling	36	33.5	719	86-7	72.9	[Bar chart showing percentile ranks]					
Science	36	33.6	711	91-8	78.5	[Bar chart showing percentile ranks]					
Social Science	36	29.3	696	81-7	68.8	[Bar chart showing percentile ranks]					
Listening	36	32.2	689	83-7	70.0	[Bar chart showing percentile ranks]					
Thinking Skills	32	161.1	714	92-8	80.2	[Bar chart showing percentile ranks]					
Basic Battery	32	247.0	NA	87-7	73.6	[Bar chart showing percentile ranks]					
Complete Battery	32	309.5	NA	87-7	73.5	[Bar chart showing percentile ranks]					

About This Group's Performance:

This group recently took the *Stanford Achievement Test, Tenth Edition* (Stanford 10). This test is one measure of their achievement. This report describes the performance of the typical student in this group compared to students in the same grade across the nation. The Battery scores provide an overall indication of this group's performance. The typical student in this group scored in the upper range for the grade, which means that group performance was Above Average. The chart below shows this group's performance in each subject area tested.

Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each		
		Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg
C Reading Vocabulary	30	0	21	79	C Mathematics Procedures (cont.)					C Social Science	40	0	36	64
C Synonyms	12	0	36	64	C Computation with Integers	4	3	37	60	C History	10	0	50	50
C Multiple Meaning Words	9	0	61	39	P Computation in Context	16	0	14	86	C Geography	10	0	36	64
C Context Clues	9	3	27	70	P Computation/Symbolic Notation	16	3	31	66	C Political Science	10	0	14	86
P Thinking Skills	18	3	30	67	P Thinking Skills	17	0	14	86	C Economics	10	0	33	67
C Reading Comprehension	54	0	24	76	C Language Mechanics	24	0	50	50	P App. of Knowledge/Comp.	12	0	64	36
C Literary	18	0	27	73	C Capitalization	8	14	78	8	P Org., Summ. & Interp. of Info.	16	0	50	50
C Informational	18	0	33	67	C Usage	8	0	44	56	P Determination of Cause/Effect	12	6	17	78
C Functional	18	0	33	67	C Punctuation	8	0	31	69	P Thinking Skills	21	0	25	75
P Initial Understanding	12	0	55	45	C Language Expression	24	0	39	61	C Listening	40	0	42	58
P Interpretation	20	0	27	73	C Sentence Structure	10	3	36	61	C Vocabulary	10	8	36	56
P Critical Analysis	12	0	36	64	C Prewriting	5	0	11	89	C Comprehension	30	0	25	75
P Strategies	10	0	36	64	C Content and Organization	9	0	22	78	P Initial Understanding	8	0	36	64
P Thinking Skills	42	0	9	91	P Thinking Skills	12	0	28	72	P Interpretation	12	3	22	75
C Mathematics Problem Solving	48	0	6	94	C Spelling	40	0	33	67	P Analysis	7	0	64	36
C Number Sense & Operations	18	0	11	89	C Phonetic Principles	12	11	36	53	P Strategies	3	0	100	0
C Patterns/Relationships/Algebra	9	0	20	80	C Structural Principles	12	0	42	58	C Literary	10	3	22	75
C Data, Statistics & Probability	9	0	20	80	C No Mistake	7	11	61	28	C Informational	10	0	67	33
C Geometry & Measurement	12	0	11	89	C Homophones	9	0	25	75	C Functional	10	0	44	56
P Communication & Representation	7	0	11	89	C Science	40	0	14	86	P Thinking Skills	22	0	31	69
P Estimation	8	3	3	94	C Life	11	0	25	75	C Thinking Skills	193	0	9	91
P Mathematical Connections	20	0	17	83	C Physical	11	3	8	89					
P Reasoning & Problem Solving	13	0	9	91	C Earth	11	0	47	53					
P Thinking Skills	41	0	6	94	C Nature of Science	7	0	25	75					
C Mathematics Procedures	32	0	17	83	P Models	14	0	28	72					
C Computation w/Whole Numbers	4	0	31	69	P Constancy	13	0	22	78					
C Computation with Decimals	10	3	20	77	P Form & Function	13	0	28	72					
C Computation with Fractions	14	3	26	71	P Thinking Skills	20	0	22	78					

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STUDENT REPORTS

- Various reports provide information about individual students' scores for subtests, totals, and/or clusters.
- The student's name appears at the top of the report for high visibility and quick recognition.
- The classroom teacher's name, school, and district appear in the upper portion of the report for easy identification.
- Grade and test date are printed at the top center of the score reports.
- Stanford 10 and OLSAT norms (Fall, Midyear, or Spring), test level, and form are printed at the bottom of the reports.
- On some reports, when percentile ranks are reported, grade percentile bands are reported on a bar graph. These bands, which span ± 1 standard error of measurement, permit quick identification of student's relative strengths and weaknesses by subject area. In general, percentile bands that do not overlap may be considered to represent significant differences in performance.
- On some reports, short paragraphs for each subject area tested describe the subtest, your student's performance, and provide suggestions for further learning at home.
- On some reports, performance on clusters is reported as Below Average, Average, or Above Average. This reporting method enables the teacher to identify relative strengths and weaknesses within a content area. Clusters may be content clusters or process clusters. Number Possible, Number Attempted, and Number Correct for each cluster are also reported.
- OLSAT scores are reported for Total, Verbal, and Nonverbal when OLSAT is processed in combination with Stanford 10.
- On some reports, the Lexile[™] measure is reported. The Lexile[™] measure, converted from the student's Reading Comprehension subtest score, is an indicator of the student's reading level and can be used to match the student to appropriate text.

ABBREVIATIONS

AAC = Achievement/Ability Comparison	PHS = Post High School
AVG = Average	PK = Pre-Kindergarten
GE = Grade Equivalent	PR-S = Percentile Rank-Stanine
LVL = Level	Q1 = First Quartile
N, % = Number, Percent	Q3 = Third Quartile
NATL or NATL = National	NP/NA/NC = Number Possible/Number Attempted/Number Correct
NC = Number Correct	SAI = School Ability Index
NCE = Normal Curve Equivalent	SD or STANDARD DEV = Standard Deviation
N-COUNT = Number of Students	SS = Scaled Score
OLSAT = Otis-Lennon School Ability Test [®] , Eighth Edition	UG = Ungraded
P10 = 10th Percentile	
P90 = 90th Percentile	

GROUP REPORTS

- Student Reports may be accompanied by group summaries that are available for class, school, or district.
- The group name appears at the top of the report for high visibility and quick recognition.
- The school and/or district names appear in the upper portion of the report for easy identification.
- Grade and test date are printed at the top center of the score reports.
- Stanford 10 and OLSAT norms (Fall, Midyear, or Spring), test level, and form are printed at the bottom of the reports.
- Summaries of the score types chosen are reported for overall performance.
- On some reports, when percentile ranks are reported, a bar graph in terms of Grade Percentile Ranks permits quick identification of the group's relative strengths and weaknesses by subject area.
- On some reports, a summary of the group's performance on multiple-choice clusters is reported in terms of percent of students in the group scoring in the Below Average, Average, or Above Average categories. This reporting method enables the teacher to identify relative strengths and weaknesses within a content area. Clusters may be content clusters or process clusters. Number of Items for each cluster is also reported.
- OLSAT scores are summarized and reported for Total, Verbal, and Nonverbal when OLSAT is processed in combination with Stanford 10.

FOOTNOTES

DNA = Not available because the student did not attempt the test or all components of a total score
 H✓ = "Average" but the highest possible rating for this cluster for this grade
 INV = Invalidated subtest.
 L✓ = "Average" but the lowest possible rating for this cluster for this grade
 NA = Scaled Scores not available for Battery.
 NA¹ = Not available because number correct (raw score) of zero does not yield any derived scores
 NA² = Not available because the student's age is unknown or out of range for the grade
 NA³ = Norms do not exist for this grade because the test was given out of level.
 NA⁴ = Cluster performance ratings are available for national norms only.

NA⁵ = Number correct (raw score) not available for mixed levels.
 NA⁶ = Not available because the student's grade was designated Ungraded.
 0⁷ = A zero score yields no derived scores
 1 = Statistics do not include students with zero number correct (raw score).
 2 = Excludes students with missing or questionable ages
 3 = Local norms based on fewer than 100 students lack precision and should be interpreted with caution.
 4 = Numbers may vary because mixed-level testing occurred and not all subtests exist at all levels

TYPES, CHARACTERISTICS, AND APPLICATIONS OF SCORES ON SUBTESTS AND DOMAIN TOTALS

Score	Description	Comparable Across			Grades
		Subtests	Forms	Levels	
Number Correct (NC)	The number of questions the student answered correctly. (Interpret only in relation to the set of questions on which the score was earned.)	NO	NO	NO	Only for the same subtest, form, or level
Scaled Score (SS)	Facilitates conversions to other score types and suitable for studying change in performance over time	NO	YES	YES	Only for the same subtest
Percentile Rank (PR)	Indicates the relative standing of a student in comparison with students in the same grade in the norm (reference) group who took the test at a comparable time.	YES	YES	YES	NO
Stanine (S)	Standard score with a mean of 5 and a standard deviation of 2. Stanines of 1, 2, 3 are below average; 4, 5, 6 are average; and 7, 8, 9 are above average. (Useful for interpreting score profiles.)	YES	YES	YES	NO
Normal Curve Equivalent (NCE)	Direct conversion from percentile rank. (Standard score resulting from the division of the normal curve into 99 equal units.)	YES	YES	YES	NO
Grade Equivalent (GE)	Grade placement at which the number correct (raw score) is average.	YES	YES	YES	NO
Achievement/Ability Comparison (AAC)	Evaluates a student's performance on a Stanford subtest or domain total in relation to the performance of others with the same level of ability. (An AAC of "High" refers to the top 23% of the comparison group, "Low" to the lowest 23%, and "Middle" to the middle 54%.)	YES	YES	YES	NO
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.	NO	YES	YES	Only for the same subtest

SCORES ON BATTERY TOTALS AND COMPOSITES

Score	Description
Number Correct (NC)	The sum of all subtest number correct scores.
Equivalent (NCE) Normal Curve	The average of the subtest NCEs across all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Grade Equivalent (GE)	The median GE across all subtests taken.
Percentile Rank (PR) Achievement/Ability Comparison (AAC)	Obtained from the mean NCE. The average of the subtest AACs, obtained from subtest AAC ranges.
Stanine (S)	Determined from the percentile rank.

Please refer to the *Stanford 10 Spring Multilevel Norms Book* or the *Stanford 10 Fall Multilevel Norms Book* for detailed explanations and guidance related to scores.



Master List Summary | WESTLAKE ACADEMY



DISTRICT: WESTLAKE ACADEMY

GRADE: 09

TEST DATE: 10/09

Total Number Tested 39	Reading			Mathematics			Language			Spelling	Science	Social Science	Listening	Thinking Skills	Battery Totals	
	Total Reading	Reading Vocabulary	Reading Comprehension	Total Mathematics	Mathematics Problem Solving	Mathematics Procedures	Language	Language Mechanics	Language Expression						Basic Battery	Complete Battery
Number Possible	84	30	54	80	48	32	48	24	24	40	40	40	40	200	292	372
Number Tested	38	38	38	37	38	37	39	39	39	39	38	38	38	35	35	35
Mean Number Correct	70.7	26.3	44.4	59.6	37.2	22.5	39.8	19.5	20.4	31.9	28.8	29.4	31.8	154.5	231.7	289.5
Mean Scaled Score	724.1	741.1	717.0	733.1	741.5	724.5	706.2	701.4	713.9	713.7	709.3	717.9	702.2	715.9	NA	NA
National PR-S of the Mean National NCE	85-7	82-7	84-7	87-7	90-8	80-7	82-7	76-6	83-7	81-7	84-7	90-8	85-7	90-8	82-7	83-7
Mean National NCE	71.8	69.2	71.1	74.0	76.8	67.5	69.4	65.1	70.1	68.2	71.0	77.0	71.6	76.7	69.6	70.5
At/Above the 50th National PR																
Number	33	33	34	32	35	30	34	33	33	32	36	34	34	34	34	33
Percent	87	87	89	86	92	81	87	85	85	82	95	89	89	97	97	94

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INDIVIDUAL SCORE TYPES FOR SUBTESTS AND DOMAIN TOTALS

Score Type	Description
Number Correct (NC)	A content-referenced score indicating the number of questions answered correctly.
Scaled Score (SS)	A standard score derived from the Number Correct (Raw Score) that indicates performance on all forms and levels of a given Stanford 10 subtest along a single, comparable scale. The Scaled Score facilitates conversions to other score types and the study of changes in performance from grade to grade.
Percentile Rank (PR)	A standard score derived from the Scaled Score that indicates the relative standing of a student in comparison to same-grade students in the norm (reference) group who took the same subtest at a comparable time. For example, a PR of 75 means that for a particular subtest the student performed as well as or better than 75% of the students in the reference group.
Stanine (S)	A standard score derived from the Percentile Rank that ranges from 1 to 9, with a mean of 5 and a standard deviation of 2. Like Percentile Ranks, Stanines indicate a student's relative standing with respect to a reference group. Usually, Stanines of 1, 2, and 3 indicate a Below Average performance; 4, 5, and 6 are Average; and 7, 8, and 9 are Above Average.
Grade Equivalent (GE)	A norm-referenced standard score that represents the average performance of students tested in a given month of the school year. Subject to misinterpretation, Grade Equivalents are best used to interpret the performance of groups of students rather than the performance or standing of an individual.
Normal Curve Equivalent (NCE)	A standard score derived from the Percentile Rank that ranges from 1 to 99, with a mean of 50 and a standard deviation of 21.06.
Achievement/Ability Comparison (AAC)	A score that categorizes a student's achievement on a subtest or domain total in relation to the achievement of a comparison group with the same ability as measured by the OLSAT. AAC categories (HIGH, MIDDLE, and LOW) are available only when the OLSAT is administered to the student with the Stanford 10.
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INDIVIDUAL SCORE TYPES FOR BATTERY TOTALS AND COMPOSITES

Score Type	Description
Number Correct (NC)	The sum of Number Correct (Raw Scores) for all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Percentile Rank (PR)	The Percentile Ranks (PRs) for all subtests taken that corresponds to the mean NCE.
Stanine (S)	Derived from the Percentile Rank (PR).
Grade Equivalent (GE)	The median of GEs for all subtests taken. (Half of the scores are above the median, half below.)
Normal Curve Equivalent (NCE)	The mean of NCEs for all subtests taken.
Achievement/Ability Comparison (AAC)	The mean of AAC ranges for all subtests taken.

ABBREVIATIONS

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 NCE = Normal Curve Equivalent
 N-COUNT = Number of Students
 OLSAT = *Otis-Lennon School Ability Test®, Eighth Edition*
 P10 = 10th Percentile
 P90 = 90th Percentile

PHS = Post High School
 PK = Pre-Kindergarten
 PR-S = Percentile Rank-Stanine
 Q1 = First Quartile
 Q3 = Third Quartile
 NP/NA/NC = Number Possible/Number Attempted/
 Number Correct
 SAI = School Ability Index
 SD or STANDARD DEV = Standard Deviation
 SS = Scaled Score
 UG = Ungraded

GROUP SCORE TYPES ON TEST ITEMS

Score Type	Description
p-Value	The percentage of a group of students answering a test question correctly.

GROUP SCORE TYPES ON TESTS AND TOTALS

Score	Type Description
Mean Number Correct	The average of Number Correct (Raw Scores) earned by a group taking a given subtest or domain total.
Mean Scaled Score	The average of Scaled Scores earned by a group taking a given subtest or domain total.
Mean NCE	The average of NCEs earned by a group taking a given subtest or domain total.
Mean SAI	The average of SAIs earned by a group taking a given subtest or domain total.
Standard Deviation	A measure of the variability in a group of scores.
National PR-S of the Mean NCE	An indicator of the performance of the typical student in the group in terms of Percentile Rank. Since percentile ranks cannot be averaged, all of the percentile ranks in a group of scores are converted to NCEs, the NCEs are averaged, and the mean NCE is converted to a percentile rank.
Median Grade Equivalent	An indicator of the performance of the typical student in the group in terms of grade equivalents. Since grade equivalents cannot be averaged, the GE that divides the group exactly in half is used.
Mean p-Value	The average of the p-values for all items in a cluster, subtest, or domain total.
National Percentile Rank Summary	The number and percent of students in a group falling into each quartile of the score distribution. May also include the top and bottom 10% of the distribution.
Achievement/Ability Comparison Summary	The percent of students in each OLSAT grade-based stanine earning AACs of High, Middle, and Low. In a normally distributed set of scores, you would expect to find 23% of students earning AACs of High, 54% earning AACs of Middle, and 23% of students earning AACs of Low.

NORMS

Norms Type	Description
National Norms	Comparisons of student performance based on the national standardization sample.
Local Norms	Comparisons of student performance based on a local (district or state) reference group.
OLSAT Age Norms	Comparisons of student performance on OLSAT based on student age, regardless of grade in school. Includes the School Ability Index (SAI).
OLSAT Grade Norms	Comparisons of student performance on OLSAT based on student grade in school, regardless of age.

FOOTNOTES

DNA = Not available because the student did not attempt the test or all components of a total score.
 H✓ = "Average," but the highest possible rating for this cluster for this grade.
 INV = Invalidated subtest
 L✓ = "Average," but the lowest possible rating for this cluster for this grade.
 NA = Scaled Scores not available for Battery.
 NA¹ = Not available because number correct (raw score) of zero does not yield any derived scores.
 NA² = Not available because the student's age is unknown or out of range for the grade.
 NA³ = Norms do not exist for this grade because the test was given out of level.
 NA⁴ = Cluster performance ratings are available for national norms only.

NA^{*} = Number correct (raw score) not available for mixed levels.
 NA⁹ = Not available because the student's grade was designated Ungraded.
 0¹ = A zero score yields no derived scores.
¹ = Statistics do not include students with zero number correct (raw score).
² = Excludes students with missing or questionable ages.
³ = Local norms based on fewer than 100 students lack precision and should be interpreted with caution.
⁴ = Numbers may vary because mixed-level testing occurred and not all subtests exist at all levels.



Group Report | WESTLAKE ACADEMY

National Comparison



GRADE: 09

TEST DATE: 10/09

DISTRICT: WESTLAKE ACADEMY

Subtests and Totals	Number Tested	Mean Number Correct	Mean Scaled Score	National Individual PR-S	Mean National NCE	National Grade Percentile Ranks					
						1	10	30	50	70	90
Total Reading	38	70.7	724	85-7	71.8						
Reading Vocabulary	38	26.3	741	82-7	69.2						
Reading Comprehension	38	44.4	717	84-7	71.1						
Total Mathematics	37	59.6	733	87-7	74.0						
Mathematics Problem Solving	38	37.2	742	90-8	76.8						
Mathematics Procedures	37	22.5	724	80-7	67.5						
Language	39	39.8	706	82-7	69.4						
Language Mechanics	39	19.5	701	76-6	65.1						
Language Expression	39	20.4	714	83-7	70.1						
Spelling	39	31.9	714	81-7	68.2						
Science	38	28.8	709	84-7	71.0						
Social Science	38	29.4	718	90-8	77.0						
Listening	38	31.8	702	85-7	71.6						
Thinking Skills	35	154.5	716	90-8	76.7						
Basic Battery	35	231.7	NA	82-7	69.6						
Complete Battery	35	289.5	NA	83-7	70.5						

About This Group's Performance:

This group recently took the *Stanford Achievement Test, Tenth Edition* (Stanford 10). This test is one measure of their achievement. This report describes the performance of the typical student in this group compared to students in the same grade across the nation. The Battery scores provide an overall indication of this group's performance. The typical student in this group scored in the upper range for the grade, which means that group performance was Above Average. The chart below shows this group's performance in each subject area tested.

Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each		
		Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg
C Reading Vocabulary	30	3	37	61	P Mathematics Procedures (cont.)					C Social Science	40	3	21	76
C Synonyms	12	3	42	55	P Computation in Context	16	3	30	68	C History	10	5	13	82
C Multiple Meaning Words	9	5	53	42	P Computation/Symbolic Notation	16	11	30	59	C Geography	10	3	18	79
C Context Clues	9	0	45	55	P Thinking Skills	18	3	30	68	C Political Science	10	3	32	66
P Thinking Skills	18	8	39	53	C Language Mechanics	24	5	38	56	C Economics	10	8	21	71
C Reading Comprehension	54	3	32	66	C Capitalization	8	8	36	56	P App. of Knowledge/Comp.	11	3	26	71
C Literary	18	3	42	55	C Usage	8	3	56	41	P Org., Summ. & Interp. of Info.	15	0	21	79
C Informational	18	3	32	66	C Punctuation	8	10	41	49	P Determination of Cause/Effect	14	5	24	71
C Functional	18	0	37	63	C Language Expression	24	3	33	64	P Thinking Skills	21	3	24	74
P Initial Understanding	10	3	18	79	C Sentence Structure	10	5	33	62	C Listening	40	3	32	66
P Interpretation	20	3	32	66	C Prewriting	5	8	49	44	C Vocabulary	10	3	24	74
P Critical Analysis	14	0	39	61	C Content and Organization	9	5	46	49	C Comprehension	30	3	32	66
P Strategies	10	8	32	61	P Thinking Skills	12	10	28	62	P Initial Understanding	8	3	42	55
P Thinking Skills	44	3	21	76	C Spelling	40	3	36	62	P Interpretation	12	3	21	76
C Mathematics Problem Solving	48	0	24	76	C Phonetic Principles	12	5	44	51	P Analysis	7	5	32	63
C Number Sense & Operations	18	3	29	68	C Structural Principles	12	5	38	56	C Strategies	3	0	97	3
C Patterns/Relationships/Algebra	9	0	21	79	C No Mistake	7	5	51	44	C Literary	10	11	37	53
C Data, Statistics & Probability	9	5	16	79	C Homophones	9	8	18	74	C Informational	10	5	45	50
C Geometry & Measurement	12	0	26	74	C Science	40	3	34	63	C Functional	10	0	34	66
P Communication & Representation	6	0	47	53	C Life	11	8	16	76	P Thinking Skills	22	3	29	68
P Estimation	10	5	8	87	C Physical	11	0	34	66	C Thinking Skills	200	3	29	69
P Mathematical Connections	18	0	18	82	C Earth	11	5	53	42					
P Reasoning & Problem Solving	14	3	26	71	C Nature of Science	7	5	47	47					
P Thinking Skills	41	0	18	82	P Models	14	3	37	61					
C Mathematics Procedures	32	8	24	68	P Constancy	13	0	24	76					
C Computation with Decimals	10	3	24	73	P Form & Function	13	5	42	53					
C Computation with Fractions	14	14	41	46	P Thinking Skills	24	3	24	74					
C Computation with Integers	8	8	24	68										

The *Stanford Achievement Test Series, Tenth Edition (Stanford 10)*, includes a single reporting system designed to present scores over the entire *Stanford 10* series from the SESAT to the TASK levels. The reports also include results for the *Otis-Lennon School Ability Test[®], Eighth Edition (OLSAT[®]0)*, when it is administered in combination with the *Stanford 10*.

STUDENT REPORTS

- Various reports provide information about individual students' scores for subtests, totals, and/or clusters.
- The student's name appears at the top of the report for high visibility and quick recognition.
- The classroom teacher's name, school, and district appear in the upper portion of the report for easy identification.
- Grade and test date are printed at the top center of the score reports.
- Stanford 10 and OLSAT norms (Fall, Midyear, or Spring), test level, and form are printed at the bottom of the reports.
- On some reports, when percentile ranks are reported, grade percentile bands are reported on a bar graph. These bands, which span ± 1 standard error of measurement, permit quick identification of student's relative strengths and weaknesses by subject area. In general, percentile bands that do not overlap may be considered to represent significant differences in performance.
- On some reports, short paragraphs for each subject area tested describe the subtest, your student's performance, and provide suggestions for further learning at home.
- On some reports, performance on clusters is reported as Below Average, Average, or Above Average. This reporting method enables the teacher to identify relative strengths and weaknesses within a content area. Clusters may be content clusters or process clusters. Number Possible, Number Attempted, and Number Correct for each cluster are also reported.
- OLSAT scores are reported for Total, Verbal, and Nonverbal when OLSAT is processed in combination with Stanford 10.
- On some reports, the Lexile[™] measure is reported. The Lexile[™] measure, converted from the student's Reading Comprehension subtest score, is an indicator of the student's reading level and can be used to match the student to appropriate text.

ABBREVIATIONS

AAC = Achievement/Ability Comparison	PHS = Post High School
AVG = Average	PK = Pre-Kindergarten
GE = Grade Equivalent	PR-S = Percentile Rank-Stanine
LVL = Level	Q1 = First Quartile
N, % = Number, Percent	Q3 = Third Quartile
NATL or NATL = National	NP/NA/NC = Number Possible/Number Attempted/Number Correct
NC = Number Correct	SAI = School Ability Index
NCE = Normal Curve Equivalent	SD or STANDARD DEV = Standard Deviation
N-COUNT = Number of Students	SS = Scaled Score
OLSAT = Otis-Lennon School Ability Test [®] , Eighth Edition	UG = Ungraded
P10 = 10th Percentile	
P90 = 90th Percentile	

GROUP REPORTS

- Student Reports may be accompanied by group summaries that are available for class, school, or district.
- The group name appears at the top of the report for high visibility and quick recognition.
- The school and/or district names appear in the upper portion of the report for easy identification.
- Grade and test date are printed at the top center of the score reports.
- Stanford 10 and OLSAT norms (Fall, Midyear, or Spring), test level, and form are printed at the bottom of the reports.
- Summaries of the score types chosen are reported for overall performance.
- On some reports, when percentile ranks are reported, a bar graph in terms of Grade Percentile Ranks permits quick identification of the group's relative strengths and weaknesses by subject area.
- On some reports, a summary of the group's performance on multiple-choice clusters is reported in terms of percent of students in the group scoring in the Below Average, Average, or Above Average categories. This reporting method enables the teacher to identify relative strengths and weaknesses within a content area. Clusters may be content clusters or process clusters. Number of Items for each cluster is also reported.
- OLSAT scores are summarized and reported for Total, Verbal, and Nonverbal when OLSAT is processed in combination with Stanford 10.

FOOTNOTES

DNA = Not available because the student did not attempt the test or all components of a total score
 H✓ = "Average" but the highest possible rating for this cluster for this grade
 INV = Invalidated subtest.
 L✓ = "Average" but the lowest possible rating for this cluster for this grade
 NA = Scaled Scores not available for Battery.
 NA¹ = Not available because number correct (raw score) of zero does not yield any derived scores
 NA² = Not available because the student's age is unknown or out of range for the grade
 NA³ = Norms do not exist for this grade because the test was given out of level.
 NA⁴ = Cluster performance ratings are available for national norms only.

NA⁵ = Number correct (raw score) not available for mixed levels.
 NA⁶ = Not available because the student's grade was designated Ungraded.
 0⁷ = A zero score yields no derived scores
 1 = Statistics do not include students with zero number correct (raw score).
 2 = Excludes students with missing or questionable ages
 3 = Local norms based on fewer than 100 students lack precision and should be interpreted with caution.
 4 = Numbers may vary because mixed-level testing occurred and not all subtests exist at all levels

TYPES, CHARACTERISTICS, AND APPLICATIONS OF SCORES ON SUBTESTS AND DOMAIN TOTALS

Score	Description	Comparable Across			Grades
		Subtests	Forms	Levels	
Number Correct (NC)	The number of questions the student answered correctly. (Interpret only in relation to the set of questions on which the score was earned.)	NO	NO	NO	Only for the same subtest, form, or level
Scaled Score (SS)	Facilitates conversions to other score types and suitable for studying change in performance over time	NO	YES	YES	Only for the same subtest
Percentile Rank (PR)	Indicates the relative standing of a student in comparison with students in the same grade in the norm (reference) group who took the test at a comparable time.	YES	YES	YES	NO
Stanine (S)	Standard score with a mean of 5 and a standard deviation of 2. Stanines of 1, 2, 3 are below average; 4, 5, 6 are average; and 7, 8, 9 are above average. (Useful for interpreting score profiles.)	YES	YES	YES	NO
Normal Curve Equivalent (NCE)	Direct conversion from percentile rank. (Standard score resulting from the division of the normal curve into 99 equal units.)	YES	YES	YES	NO
Grade Equivalent (GE)	Grade placement at which the number correct (raw score) is average.	YES	YES	YES	NO
Achievement/Ability Comparison (AAC)	Evaluates a student's performance on a Stanford subtest or domain total in relation to the performance of others with the same level of ability. (An AAC of "High" refers to the top 23% of the comparison group, "Low" to the lowest 23%, and "Middle" to the middle 54%.)	YES	YES	YES	NO
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.	NO	YES	YES	Only for the same subtest

SCORES ON BATTERY TOTALS AND COMPOSITES

Score	Description
Number Correct (NC)	The sum of all subtest number correct scores.
Equivalent (NCE) Normal Curve	The average of the subtest NCEs across all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Grade Equivalent (GE)	The median GE across all subtests taken.
Percentile Rank (PR) Achievement/Ability Comparison (AAC)	Obtained from the mean NCE. The average of the subtest AACs, obtained from subtest AAC ranges.
Stanine (S)	Determined from the percentile rank.

Please refer to the *Stanford 10 Spring Multilevel Norms Book* or the *Stanford 10 Fall Multilevel Norms Book* for detailed explanations and guidance related to scores.



Master List Summary | WESTLAKE ACADEMY



DISTRICT: WESTLAKE ACADEMY

GRADE: 10

TEST DATE: 10/09

Total Number Tested 37	Reading			Mathematics		Language			Spelling	Science	Social Science	Thinking Skills	Battery Totals	
	Total Reading	Reading Vocabulary	Reading Comprehension	Mathematics	Language	Language Mechanics	Language Expression	Basic Battery					Complete Battery	
Number Possible	84	30	54	50		48	24	24	40	40	40	166	222	302
Number Tested	35	35	35	37		36	36	36	36	35	35	33	35	33
Mean Number Correct	71.4	26.0	45.4	37.1		39.3	18.3	21.0	32.0	30.8	24.9	128.6	179.6	234.9
Mean Scaled Score	735.5	746.5	731.7	758.6		719.1	716.1	728.6	725.4	728.4	713.5	731.2	NA	NA
National PR-S of the Mean National NCE	89-8	81-7	89-8	94-8		81-7	77-7	84-7	85-7	91-8	87-7	92-8	87-7	87-7
Mean National NCE	75.9	68.9	76.2	82.4		68.7	65.6	70.6	71.6	77.9	73.6	80.2	73.5	74.0
At/Above the 50th National PR														
Number	35	34	35	37		34	33	35	36	35	34	33	35	33
Percent	100	97	100	100		94	92	97	100	100	97	100	100	100

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INDIVIDUAL SCORE TYPES FOR SUBTESTS AND DOMAIN TOTALS

Score Type	Description
Number Correct (NC)	A content-referenced score indicating the number of questions answered correctly.
Scaled Score (SS)	A standard score derived from the Number Correct (Raw Score) that indicates performance on all forms and levels of a given Stanford 10 subtest along a single, comparable scale. The Scaled Score facilitates conversions to other score types and the study of changes in performance from grade to grade.
Percentile Rank (PR)	A standard score derived from the Scaled Score that indicates the relative standing of a student in comparison to same-grade students in the norm (reference) group who took the same subtest at a comparable time. For example, a PR of 75 means that for a particular subtest the student performed as well as or better than 75% of the students in the reference group.
Stanine (S)	A standard score derived from the Percentile Rank that ranges from 1 to 9, with a mean of 5 and a standard deviation of 2. Like Percentile Ranks, Stanines indicate a student's relative standing with respect to a reference group. Usually, Stanines of 1, 2, and 3 indicate a Below Average performance; 4, 5, and 6 are Average; and 7, 8, and 9 are Above Average.
Grade Equivalent (GE)	A norm-referenced standard score that represents the average performance of students tested in a given month of the school year. Subject to misinterpretation, Grade Equivalents are best used to interpret the performance of groups of students rather than the performance or standing of an individual.
Normal Curve Equivalent (NCE)	A standard score derived from the Percentile Rank that ranges from 1 to 99, with a mean of 50 and a standard deviation of 21.06.
Achievement/Ability Comparison (AAC)	A score that categorizes a student's achievement on a subtest or domain total in relation to the achievement of a comparison group with the same ability as measured by the OLSAT. AAC categories (HIGH, MIDDLE, and LOW) are available only when the OLSAT is administered to the student with the Stanford 10.
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.

INDIVIDUAL SCORE TYPES FOR BATTERY TOTALS AND COMPOSITES

Score Type	Description
Number Correct (NC)	The sum of Number Correct (Raw Scores) for all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Percentile Rank (PR)	The Percentile Ranks (PRs) for all subtests taken that corresponds to the mean NCE.
Stanine (S)	Derived from the Percentile Rank (PR).
Grade Equivalent (GE)	The median of GEs for all subtests taken. (Half of the scores are above the median, half below.)
Normal Curve Equivalent (NCE)	The mean of NCEs for all subtests taken.
Achievement/Ability Comparison (AAC)	The mean of AAC ranges for all subtests taken.

ABBREVIATIONS

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 AVG = Average
 GE = Grade Equivalent
 INV = Invalid Test
 LVL = Level
 N, % = Number, Percent
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GROUP SCORE TYPES ON TEST ITEMS

Score Type	Description
p-Value	The percentage of a group of students answering a test question correctly.

GROUP SCORE TYPES ON TESTS AND TOTALS

Score	Type Description
Mean Number Correct	The average of Number Correct (Raw Scores) earned by a group taking a given subtest or domain total.
Mean Scaled Score	The average of Scaled Scores earned by a group taking a given subtest or domain total.
Mean NCE	The average of NCEs earned by a group taking a given subtest or domain total.
Mean SAI	The average of SAIs earned by a group taking a given subtest or domain total.
Standard Deviation	A measure of the variability in a group of scores.
National PR-S of the Mean NCE	An indicator of the performance of the typical student in the group in terms of Percentile Rank. Since percentile ranks cannot be averaged, all of the percentile ranks in a group of scores are converted to NCEs, the NCEs are averaged, and the mean NCE is converted to a percentile rank.
Median Grade Equivalent	An indicator of the performance of the typical student in the group in terms of grade equivalents. Since grade equivalents cannot be averaged, the GE that divides the group exactly in half is used.
Mean p-Value	The average of the p-values for all items in a cluster, subtest, or domain total.
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NORMS

Norms Type	Description
National Norms	Comparisons of student performance based on the national standardization sample.
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Group Report | WESTLAKE ACADEMY

National Comparison



About This Group's Performance:

This group recently took the *Stanford Achievement Test*, Tenth Edition (Stanford 10). This test is one measure of their achievement. This report describes the performance of the typical student in this group compared to students in the same grade across the nation. The Battery scores provide an overall indication of this group's performance. The typical student in this group scored in the upper range for the grade, which means that group performance was Above Average. The chart below shows this group's performance in each subject area tested.

DISTRICT: WESTLAKE ACADEMY

GRADE: 10

TEST DATE: 10/09

Subtests and Totals	Number Tested	Mean Number Correct	Mean Scaled Score	National Individual PR-S	Mean National NCE	National Grade Percentile Ranks					
						1	10	30	50	70	90
Total Reading	35	71.4	735	89-8	75.9						
Reading Vocabulary	35	26.0	746	81-7	68.9						
Reading Comprehension	35	45.4	732	89-8	76.2						
Mathematics	37	37.1	759	94-8	82.4						
Language	36	39.3	719	81-7	68.7						
Language Mechanics	36	18.3	716	77-7	65.6						
Language Expression	36	21.0	729	84-7	70.6						
Spelling	36	32.0	725	85-7	71.6						
Science	35	30.8	728	91-8	77.9						
Social Science	35	24.9	713	87-7	73.6						
Thinking Skills	33	128.6	731	92-8	80.2						
Basic Battery	35	179.6	NA	87-7	73.5						
Complete Battery	33	234.9	NA	87-7	74.0						

Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each			Clusters	Number of Items	Percent in Each		
		Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg			Below Avg	Avg	Above Avg
C Reading Vocabulary	30	0	49	51	C Language Expression	24	0	36	64	P Thinking Skills	166	0	3	97
C Synonyms	12	3	66	31	C Sentence Structure	10	3	39	58					
C Multiple Meaning Words	6	0	51	49	C Prewriting	5	0	42	58					
C Context Clues	12	0	37	63	C Content and Organization	9	0	28	72					
P Thinking Skills	18	0	46	54	P Thinking Skills	12	0	14	86					
C Reading Comprehension	54	0	17	83	C Spelling	40	0	25	75					
C Literary	18	0	9	91	C Phonetic Principles	10	0	36	64					
C Informational	18	0	46	54	C Structural Principles	14	0	61	39					
C Functional	18	0	29	71	C No Mistake	7	3	44	53					
P Initial Understanding	10	0	23	77	C Homophones	9	0	14	86					
P Interpretation	20	0	29	71	C Science	40	0	11	89					
P Critical Analysis	14	0	26	74	C Life	11	0	29	71					
P Strategies	10	0	20	80	C Physical	11	0	34	66					
P Thinking Skills	44	0	14	86	C Earth	11	0	29	71					
C Mathematics	50	0	0	100	C Nature of Science	7	0	6	94					
C Number Sense & Operations	9	0	22	78	P Models	14	0	9	91					
C Patterns/Relationships/Algebra	15	0	8	92	P Constancy	13	0	11	89					
C Data, Statistics & Probability	12	0	0	100	P Form & Function	13	0	34	66					
C Geometry & Measurement	14	0	8	92	P Thinking Skills	24	0	9	91					
P Communication & Representation	5	0	14	86	C Social Science	40	0	14	86					
P Estimation	9	0	8	92	C History	10	3	23	74					
P Mathematical Connections	23	0	5	95	C Geography	10	0	29	71					
P Reasoning & Problem Solving	13	0	3	97	C Political Science	10	3	40	57					
P Thinking Skills	44	0	0	100	C Economics	10	0	37	63					
C Language Mechanics	24	0	47	53	P App. of Knowledge/Comp.	12	0	11	89					
C Capitalization	8	8	33	58	P Org., Summ. & Interp. of Info.	15	0	20	80					
C Usage	8	0	78	22	P Determination of Cause/Effect	13	3	37	60					
C Punctuation	8	0	31	69	P Thinking Skills	24	3	11	86					

The *Stanford Achievement Test Series, Tenth Edition (Stanford 10)*, includes a single reporting system designed to present scores over the entire *Stanford 10* series from the SESAT to the TASK levels. The reports also include results for the *Otis-Lennon School Ability Test[®], Eighth Edition (OLSAT[®]0)*, when it is administered in combination with the *Stanford 10*.

STUDENT REPORTS

- Various reports provide information about individual students' scores for subtests, totals, and/or clusters.
- The student's name appears at the top of the report for high visibility and quick recognition.
- The classroom teacher's name, school, and district appear in the upper portion of the report for easy identification.
- Grade and test date are printed at the top center of the score reports.
- Stanford 10 and OLSAT norms (Fall, Midyear, or Spring), test level, and form are printed at the bottom of the reports.
- On some reports, when percentile ranks are reported, grade percentile bands are reported on a bar graph. These bands, which span ± 1 standard error of measurement, permit quick identification of student's relative strengths and weaknesses by subject area. In general, percentile bands that do not overlap may be considered to represent significant differences in performance.
- On some reports, short paragraphs for each subject area tested describe the subtest, your student's performance, and provide suggestions for further learning at home.
- On some reports, performance on clusters is reported as Below Average, Average, or Above Average. This reporting method enables the teacher to identify relative strengths and weaknesses within a content area. Clusters may be content clusters or process clusters. Number Possible, Number Attempted, and Number Correct for each cluster are also reported.
- OLSAT scores are reported for Total, Verbal, and Nonverbal when OLSAT is processed in combination with Stanford 10.
- On some reports, the Lexile[™] measure is reported. The Lexile[™] measure, converted from the student's Reading Comprehension subtest score, is an indicator of the student's reading level and can be used to match the student to appropriate text.

ABBREVIATIONS

AAC = Achievement/Ability Comparison	PHS = Post High School
AVG = Average	PK = Pre-Kindergarten
GE = Grade Equivalent	PR-S = Percentile Rank-Stanine
LVL = Level	Q1 = First Quartile
N, % = Number, Percent	Q3 = Third Quartile
NATL or NATL = National	NP/NA/NC = Number Possible/Number Attempted/Number Correct
NC = Number Correct	SAI = School Ability Index
NCE = Normal Curve Equivalent	SD or STANDARD DEV = Standard Deviation
N-COUNT = Number of Students	SS = Scaled Score
OLSAT = Otis-Lennon School Ability Test [®] , Eighth Edition	UG = Ungraded
P10 = 10th Percentile	
P90 = 90th Percentile	

GROUP REPORTS

- Student Reports may be accompanied by group summaries that are available for class, school, or district.
- The group name appears at the top of the report for high visibility and quick recognition.
- The school and/or district names appear in the upper portion of the report for easy identification.
- Grade and test date are printed at the top center of the score reports.
- Stanford 10 and OLSAT norms (Fall, Midyear, or Spring), test level, and form are printed at the bottom of the reports.
- Summaries of the score types chosen are reported for overall performance.
- On some reports, when percentile ranks are reported, a bar graph in terms of Grade Percentile Ranks permits quick identification of the group's relative strengths and weaknesses by subject area.
- On some reports, a summary of the group's performance on multiple-choice clusters is reported in terms of percent of students in the group scoring in the Below Average, Average, or Above Average categories. This reporting method enables the teacher to identify relative strengths and weaknesses within a content area. Clusters may be content clusters or process clusters. Number of Items for each cluster is also reported.
- OLSAT scores are summarized and reported for Total, Verbal, and Nonverbal when OLSAT is processed in combination with Stanford 10.

FOOTNOTES

DNA = Not available because the student did not attempt the test or all components of a total score
 H✓ = "Average" but the highest possible rating for this cluster for this grade
 INV = Invalidated subtest.
 L✓ = "Average" but the lowest possible rating for this cluster for this grade
 NA = Scaled Scores not available for Battery.
 NA¹ = Not available because number correct (raw score) of zero does not yield any derived scores
 NA² = Not available because the student's age is unknown or out of range for the grade
 NA³ = Norms do not exist for this grade because the test was given out of level.
 NA⁴ = Cluster performance ratings are available for national norms only.

NA⁵ = Number correct (raw score) not available for mixed levels.
 NA⁶ = Not available because the student's grade was designated Ungraded.
 0⁷ = A zero score yields no derived scores
 1 = Statistics do not include students with zero number correct (raw score).
 2 = Excludes students with missing or questionable ages
 3 = Local norms based on fewer than 100 students lack precision and should be interpreted with caution.
 4 = Numbers may vary because mixed-level testing occurred and not all subtests exist at all levels

TYPES, CHARACTERISTICS, AND APPLICATIONS OF SCORES ON SUBTESTS AND DOMAIN TOTALS

Score	Description	Comparable Across			Grades
		Subtests	Forms	Levels	
Number Correct (NC)	The number of questions the student answered correctly. (Interpret only in relation to the set of questions on which the score was earned.)	NO	NO	NO	Only for the same subtest, form, or level
Scaled Score (SS)	Facilitates conversions to other score types and suitable for studying change in performance over time	NO	YES	YES	Only for the same subtest
Percentile Rank (PR)	Indicates the relative standing of a student in comparison with students in the same grade in the norm (reference) group who took the test at a comparable time.	YES	YES	YES	NO
Stanine (S)	Standard score with a mean of 5 and a standard deviation of 2. Stanines of 1, 2, 3 are below average; 4, 5, 6 are average; and 7, 8, 9 are above average. (Useful for interpreting score profiles.)	YES	YES	YES	NO
Normal Curve Equivalent (NCE)	Direct conversion from percentile rank. (Standard score resulting from the division of the normal curve into 99 equal units.)	YES	YES	YES	NO
Grade Equivalent (GE)	Grade placement at which the number correct (raw score) is average.	YES	YES	YES	NO
Achievement/Ability Comparison (AAC)	Evaluates a student's performance on a Stanford subtest or domain total in relation to the performance of others with the same level of ability. (An AAC of "High" refers to the top 23% of the comparison group, "Low" to the lowest 23%, and "Middle" to the middle 54%.)	YES	YES	YES	NO
School Ability Index (SAI)	An age-based, normalized standard score with a mean of 100 and a standard deviation of 16. The student's School Ability Index is derived from Verbal, Nonverbal, and Total scores earned when the OLSAT is administered with the Stanford 10.	NO	YES	YES	Only for the same subtest

SCORES ON BATTERY TOTALS AND COMPOSITES

Score	Description
Number Correct (NC)	The sum of all subtest number correct scores.
Equivalent (NCE) Normal Curve	The average of the subtest NCEs across all subtests taken.
Scaled Score (SS)	Not available for battery totals and composites.
Grade Equivalent (GE)	The median GE across all subtests taken.
Percentile Rank (PR) Achievement/Ability Comparison (AAC)	Obtained from the mean NCE. The average of the subtest AACs, obtained from subtest AAC ranges.
Stanine (S)	Determined from the percentile rank.

Please refer to the *Stanford 10 Spring Multilevel Norms Book* or the *Stanford 10 Fall Multilevel Norms Book* for detailed explanations and guidance related to scores.