

Assessment Instrument Table: STAR READING®

Element	Description	Assessment Instrument Information
Instrument Name	Name of specific instrument (more than vendor name).	Star Reading
	Name of the company or organization that produces the instrument.	Renaissance Learning, Inc.
Purpose (Intended Use)	The described purpose and appropriate uses of the instrument.	Star Reading is a student-based, computer-adaptive assessment for measuring student achievement in reading. Star Reading fulfills a variety of assessment purposes, including interim assessment, screening, standards benchmarking, diagnosing skill gaps, skills-based reporting and instructional planning, and progress monitoring. Star Reading is the most widely used reading assessment in K12 schools. Educators get valid, reliable, actionable data in 15–20 minutes.
Population	Who (which students) could be assessed using the instrument.	Independent readers in grades K through 12
When? How frequently?	How frequently the instrument can be administered in a school year, and recommended or required administration windows.	As an interim assessment, Star Reading was designed for frequent administration. <i>Educators can administer Star Reading three times per year in fall, winter, and spring.</i> Educators may also administer Star Reading as a progress monitoring assessment as often as weekly. If a school wants to see a trend line that estimates proficiency on state tests, they administer an additional Star Reading test in late fall.
Content Area (s)	Content area or areas being assessed.	Star Reading is a K–12 test that focuses on measuring student performance with skills in five domains: <ul style="list-style-type: none"> • Word Knowledge and Skills • Comprehension Strategies and Constructing Meaning • Understanding Author’s Craft • Analyzing Literary Text • Analyzing Argument and Evaluating Text

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Learning Objectives	Specific learning objectives being assessed, at as detailed a level as is provided. This may be "topics" or categories or may be actual learning objective statements.	<p>The table below displays the domains, skill sets, and skill areas assessed by Star Reading. Star Reading’s items test 470 grade-specific skills (multiple items are available to measure each skill). Due to the large number of grade-specific skills, they are not listed in the table.</p> <table border="1" data-bbox="695 371 1894 1403"> <thead> <tr> <th data-bbox="705 383 1045 407">Domain</th> <th data-bbox="1062 383 1402 407">Skill set</th> <th data-bbox="1419 383 1887 407">Skill area</th> </tr> </thead> <tbody> <tr> <td data-bbox="705 420 1045 691" rowspan="6">Word Knowledge and Skills</td> <td data-bbox="1062 420 1402 483" rowspan="2">Vocabulary Strategies</td> <td data-bbox="1419 420 1887 444">Use context clues</td> </tr> <tr> <td data-bbox="1419 448 1887 472">Use structural analysis</td> </tr> <tr> <td data-bbox="1062 475 1402 691" rowspan="4">Vocabulary Knowledge</td> <td data-bbox="1419 475 1887 516">Recognize and understand synonyms</td> </tr> <tr> <td data-bbox="1419 519 1887 560">Recognize and understand homonyms and multi-meaning words</td> </tr> <tr> <td data-bbox="1419 563 1887 604">Recognize connotation and denotation</td> </tr> <tr> <td data-bbox="1419 607 1887 647">Understand idioms</td> </tr> <tr> <td data-bbox="705 695 1045 1227" rowspan="13">Comprehension Strategies and Constructing Meaning</td> <td data-bbox="1062 695 1402 846" rowspan="4">Reading Process Skills</td> <td data-bbox="1419 695 1887 719">Make predictions</td> </tr> <tr> <td data-bbox="1419 722 1887 763">Identify author’s purpose</td> </tr> <tr> <td data-bbox="1419 766 1887 807">Identify and understand text features</td> </tr> <tr> <td data-bbox="1419 810 1887 850">Recognize an accurate summary of text</td> </tr> <tr> <td data-bbox="1062 849 1402 1089" rowspan="5">Constructing Meaning</td> <td data-bbox="1419 849 1887 889">Understand vocabulary in context</td> </tr> <tr> <td data-bbox="1419 893 1887 933">Draw conclusions</td> </tr> <tr> <td data-bbox="1419 937 1887 977">Identify and understand main ideas</td> </tr> <tr> <td data-bbox="1419 980 1887 1021">Identify details</td> </tr> <tr> <td data-bbox="1419 1024 1887 1065">Extend meaning or form generalizations</td> </tr> <tr> <td data-bbox="1062 1092 1402 1227" rowspan="4">Organizational Structure</td> <td data-bbox="1419 1092 1887 1133">Identify organizational structure</td> </tr> <tr> <td data-bbox="1419 1136 1887 1177">Understand cause and effect</td> </tr> <tr> <td data-bbox="1419 1180 1887 1221">Understand comparison and contrast</td> </tr> <tr> <td data-bbox="1419 1224 1887 1265">Identify and understand sequence</td> </tr> <tr> <td data-bbox="705 1230 1045 1403" rowspan="4">Analyzing Literary Text</td> <td data-bbox="1062 1230 1402 1403" rowspan="4">Literary Elements</td> <td data-bbox="1419 1230 1887 1271">Identify and understand elements of plot</td> </tr> <tr> <td data-bbox="1419 1274 1887 1315">Identify and understand setting</td> </tr> <tr> <td data-bbox="1419 1318 1887 1359">Identify characters and understand characterization</td> </tr> <tr> <td data-bbox="1419 1362 1887 1403">Identify and understand theme</td> </tr> </tbody> </table>	Domain	Skill set	Skill area	Word Knowledge and Skills	Vocabulary Strategies	Use context clues	Use structural analysis	Vocabulary Knowledge	Recognize and understand synonyms	Recognize and understand homonyms and multi-meaning words	Recognize connotation and denotation	Understand idioms	Comprehension Strategies and Constructing Meaning	Reading Process Skills	Make predictions	Identify author’s purpose	Identify and understand text features	Recognize an accurate summary of text	Constructing Meaning	Understand vocabulary in context	Draw conclusions	Identify and understand main ideas	Identify details	Extend meaning or form generalizations	Organizational Structure	Identify organizational structure	Understand cause and effect	Understand comparison and contrast	Identify and understand sequence	Analyzing Literary Text	Literary Elements	Identify and understand elements of plot	Identify and understand setting	Identify characters and understand characterization	Identify and understand theme
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				Identify the narrator and point of view	
			Genre Characteristics	Identify fiction and nonfiction, reality, and fantasy	
				Identify and understand characteristics of genres	
		Understanding Author's Craft	Author's Choices		Understand figurative language
					Understand literary devices
					Identify sensory detail
		Analyzing Argument and Evaluating Text	Analysis		Identify bias and analyze text for logical fallacies
					Identify and understand persuasion
			Evaluation		Evaluate reasoning and support
					Evaluate credibility

Individual Metrics

The scores provided at the individual (student) level.

All the results of Star Reading tests across grade levels are converted to a common scale using an item-response theory model; these **scaled scores** range from 0 to 1400. Scaled scores are useful in comparing student performance over time and in identifying performance and all criterion and norms associated with that scale.

The following scores which include comparison points in the score are also provided:

Norm-referenced scores:

- The **grade-equivalent** represents how a student's test performance compares with other students nationally. It ranges from 0.0 to 12.9+. For example, a student with a grade-equivalent of 7.6 performed as well as a typical seventh-grader in the sixth month of the school year.
- A **percentile rank** provides the best measure of a student's level of achievement compared to other students in the same grade nationally. A percentile rank ranges from 1–99, and it indicates the percentage of a student's peers whose scores were equal to or lower than the student's score. For example, a student who has a percentile rank of 85 performed as well as or better than 85 percent of students in the same grade.
- A **normal curve equivalent** is similar to the percentile rank, but it is based on an equal-interval scale. This means the difference between any two successive scores on the normal curve equivalent scale has the same meaning throughout the scale. Normal curve equivalents range from 1–99. Normal curve equivalents are primarily used for research; they are useful in making

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		<p>comparisons between different achievement tests and for statistical computations, such as for determining an average score for a group of students.</p> <ul style="list-style-type: none"> • Student growth percentile (SGP) is a measure of growth between a pre- and post-test relative to the growth made by other students in the same grade with the same pre-test score. It is a simple and effective way for educators to interpret a student’s growth rate relative to that of his or her academic peers nationwide. SGPs for Star Reading are calculated using an approach similar to the Colorado Growth Model. <p>Specialty scores</p> <ul style="list-style-type: none"> • Estimated oral reading fluency (Est. ORF) is reported as an estimated number of words a student can read correctly within a one-minute time span on grade-level-appropriate text. It is an estimate of a student’s ability to read words quickly and accurately to comprehend text efficiently. Students with oral reading fluency demonstrate accurate decoding, automatic word recognition, and appropriate use of the rhythmic aspects of language (for example, intonation, phrasing, pitch, and emphasis). • Instructional reading level is a criterion-referenced score that indicates the highest reading level at which a student is at least 80 percent proficient at recognizing words and understanding material with instructional assistance. • Lexile® measure is the highest reading level at which a student is at least 75 percent proficient in recognizing words and understanding material. The Lexile scale is a common scale for both text measure (readability or text difficulty) and reader measure (reading achievement scores); in the Lexile Framework, both text difficulty and person reading ability are measured on the same scale. • Zone of Proximal Development (ZPD) is an individualized range of readability levels based on a student’s results from a Star Reading assessment. Books students choose to read within their ZPD range should neither be too difficult nor too easy and should allow students to experience optimal growth. A Lexile ZPD range is also available, which is a student’s ZPD Range converted to the MetaMetrics® Lexile scale of the readability of text.
Individual Comparison Points (cut scores)	Information provided regarding how good is good enough	<p>Star Reading provides maps of scaled score ranges to:</p> <ul style="list-style-type: none"> • Grade-level equivalent scores (from 0.0 to 12.9+) • Percentile ranks (associated with Grade Placements)

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	performance on the instrument.	<ul style="list-style-type: none"> <li data-bbox="741 240 1255 267">• Instructional Reading Level conversions <p data-bbox="690 284 1539 311">These maps provide comparison points for scaled scores by grade level.</p> <p data-bbox="690 354 1927 495">Districts can set performance categories based on their own cut scores for the Star Reading scaled score to color-coded individual and group performance by category, such as: At Benchmark, On Watch, Intervention, and Urgent Intervention. Once cut scores have been set, Star Reading reports categorize individual students' scaled scores according to these color-coded performance categories.</p> <p data-bbox="690 532 1818 560">All but the Star Reading scaled score include comparison points as part of the metric definition.</p>
Aggregate Metrics	Scores provided at the group level. The groups for which scores are reported. The group could be a grade level, school, district, or disaggregated groups (e.g. race/ethnicity, gender, IEP status, FRL status) Specify the group(s) and the score(s) provided.	<p data-bbox="690 570 1948 748">When districts set cut scores for individual student scaled scores to establish performance categories, these categories are used to provide aggregate metrics, including the percent and number of students by district benchmark category (available by grade at the district, school levels) across years of available data. These metrics can be calculated using cross-sectional data (same grade year to year) or for the same students over multiple years.</p> <p data-bbox="690 789 1419 816">The following additional aggregate metrics are also provided:</p> <ul style="list-style-type: none"> <li data-bbox="741 833 1927 938">• Median Student Growth Percentile: the middle student growth percentile within the included group. This metric is reported for different time periods (fall to spring, spring to spring) by grade level within school, grade level within the district, and by class. <li data-bbox="741 954 1913 1060">• Average scores at the school by grade level and classroom levels of the following individual metrics: scaled score, grade equivalent, percentile rank, normal curve equivalent, instructional reading level, and estimated oral reading fluency. <li data-bbox="741 1076 1938 1286">• Percent of students in or above the estimated mastery range for reading standards (Colorado Academic Standards) by school and by class within the school: Star Reading provides an estimate of the students' mastery of standards by aligning them to the same 1400-point difficulty scale used to report Star Reading scores. The estimated mastery range identifies a band of scores where the student is just below or above mastery. The percentage of students who score in or above this range indicates overall progress toward standards mastery.

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Aggregate Comparison Points (vendor)	Information provided regarding how good is good enough performance at the group level.	<p>Because most of the individual metrics provided for Star Reading are norm-referenced scores, almost all of the aggregate metrics provided by this vendor also include a comparison point within the metric definition.</p> <p>This includes the following metrics (described on the previous page):</p> <ul style="list-style-type: none"> • Percent/number scoring at district-determined performance levels (note districts determine the comparison points used in these metrics when they set their own cut scores for different performance levels) • Median growth percentiles • Average grade equivalent • Average percentile rank • Average normal curve equivalent • Average instructional reading level • Average estimated oral reading fluency • Percentage of students in or above estimated mastery range for reading standards

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Aggregate Comparison Points (CDE)	Cut scores identified by CDE for requests to reconsider	The table below provides aggregate metrics for cut scores identified for the 50 th percentile. CDE-provided comparison points include Fall and Spring Mean Scale Scores and Median Growth Percentiles for each grade level.

Note: The CDE comparison points for Star Reading for the 2017-18 Request-to-Reconsider process have been revised from previous years.

READING – Scale Scores by Grade Level			
Fall Scale Scores		Spring Scale Scores	Scale Score Growth (Fall to Spring)
Grade	50th Percentile Scale Score	50th Percentile Scale Score	Median Growth Percentile Meets Rating
1	75	139	50
2	219	317	50
3	362	435	50
4	465	522	50
5	570	640	50
6	684	795	50
7	811	895	50
8	921	994	50
9	1026	1116	50
10	1124	1167	50
11	1172	1204	50
12	1224	1244	50

Data Reports	Description of data reports that are provided/available at the individual and aggregate level(s).	Scores are displayed on a variety of reports that educators can choose to run at the classroom, grade, school, or district level. In addition, administrators can customize many of the Star Reading reports to view information about participation and performance across the district and by various demographic subgroups (for example, students receiving free and reduced lunch, English language learners, etc.). On the following page, we describe key Star Reading reports, including levels for which the report is available.
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		<p>Growth Proficiency Chart (student, class, grade, district) plots SGP and proficiency on a quadrant graph so that educators can easily see whether students are challenged and growing every year, regardless of their academic starting point.</p> <p>Growth Report (student, class, grade, school) shows educators whether students are reaching their growth expectations. The Growth Report includes median student growth percentiles and averages for the following metrics: scaled score, grade equivalent, percentile rank, normal curve equivalent, instructional reading level, and estimated oral reading fluency.</p> <p>State Performance Report (student, class, grade, school, district) predicts student performance on high-stakes tests. Predictions account for growth that typically occurs between the date of the last Star Reading test taken and the date of the state test. At the school, grade, and district levels, this report lists the percentage and number of students projected to be at each performance level assessed by the state test when the test is administered. At the class level, the report shows the average scores for the class.</p> <p>State Standards Report (student, class, grade, district) gauges students' current and projected mastery according to the Colorado Academic Standards. At the student level, these reports measure an individual student's performance on the state standards via scaled score; at the class level, the report shows the percentage of students demonstrating mastery of the standards; and at the district level, the report shows how each grade level within a school or the district is performing.</p> <p>For additional information please see Key Report Samples for the Star assessments.</p>
Alignment	Information provided by the vendor about alignment of this instrument to other instruments, standards, etc.	<p>Star Reading features rigorously calibrated items that test 470 discrete skills, all designed to align to national and state curriculum standards in reading and language arts. Star Reading is aligned to the Colorado Academic Standards and is placed on the Colorado-specific learning progression for reading. Star Reading is specifically aligned to the Colorado Academic Standards reading domains, including Reading Literature, and Informational Text and Reading Foundational Skills. It is also aligned to the vocabulary standards included within the Language domain.</p> <p>The relationship between Star Reading scores with other standardized reading assessments has been psychometrically studied and documented. Detailed information is provided in the Star Reading Technical Manual.</p>

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Technical Quality	Information about the technical quality of the instrument. Reference to technical analysis if available electronically.	<p>Star Reading has met the highest standards of reliability and validity set forth by the U.S. Department of Education’s National Center on Response to Intervention (NCRTI), the most trusted source for unbiased evaluation of screening and progress-monitoring tools for Response to Intervention. NCRTI has found the Star assessments deserving of the highest rating of “Convincing Evidence” for screening and progress-monitoring. For details, please visit http://www.rti4success.org/resources/tools-charts/screening-tools-chart.</p> <p>Star Reading also met the highest psychometrics standards for progress monitoring by the U.S. Department of Education’s National Center on Intensive Intervention. For details, please visit http://www.intensiveintervention.org/chart/progress-monitoring.</p> <p>Star Reading is extremely reliable as evidenced through analyses of generic reliability, split-half reliability, test-retest reliability, and standard error of measurement. Details are available on pages 46–59 of the <i>Star Reading Technical Manual</i>.</p> <p>The assessment is also a valid measure of independent reading achievement. Data can be used to diagnose early reading deficiencies and predict children’s later reading development. Evidence of the assessment’s concurrent, predictive, and construct validity is presented on pages 60–93 of the <i>Star Reading Technical Manual</i>. The Star Reading blueprints and the alignment study of both assessments with the Colorado Academic Standards provide additional evidence of the tests’ construct validity.</p>