

WASHINGTON STATE SCIENCE ASSESSMENT INFORMATION MATRIX

ASSESSMENT	DESCRIPTIVE INFORMATION	ADMINISTRATION	CONTENT	SCORING AND REPORTING	TECHNICAL ADEQUACY
<p><u>Acuity Science</u> CTB/McGraw-Hill 20 Ryan Ranch Road Monterey, CA 93940 (800) 538-9547 http://www2.ctb.com/acuity/ <u>Purpose:</u> Formative, Diagnostic <u>Grade Levels:</u> 3-8 <u>Cost:</u> No information was available.</p>	<p>Acuity Science assessments enable educators to efficiently measure and track student progress and deliver reports that inform instruction and support student achievement and learning. Acuity Science contains predictive components, including one early indicator and one predictive assessment aligned to state standards, and helps educators meet science assessment requirements as outlined by No Child Left Behind. In addition, Acuity Science provides diagnostic tools to support science teaching and learning in elementary and middle school in the areas of Life Science, Physical Science, Earth Science, and Scientific Inquiry/Nature of Science.</p>	<p>Acuity Science can be administered online or via paper and pencil. Teacher can manipulate the test bank to create original test items.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Content Coverage not determined X Systems (concepts and principles) X Inquiry <input type="checkbox"/> Design (develop and test solutions to problems) 	<p>Reports can be printed out and viewed by student, class, school, or district.</p> <p>Online administration and reporting is available.</p> <p>Aggregated reports for district and multi-district comparisons available in 24 to 48 hours.</p>	<p><i>No evidence of technical adequacy is available at this time.</i></p> <p>Development of all content areas of the Acuity Assessments for Washington are still in the planning stages. There is no Washington science assessment at this time.</p>

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<p>Assess2Know</p> <p>Riverside Publishing 3800 Golf Road, Suite 100 Rolling Meadows, IL 60008 Ph: (800) 323-9540 Fax: (630) 467-7192 http://www.riverpub.com/products/a2k/index.html</p> <p>Purpose: Formative assessment, progress monitoring. Can be used to create a variety of assessments for use in the classroom and/or district level to inform instruction and improve student achievement.</p> <p>Grade Levels: 3-10</p> <p>Language: English only</p> <p>Cost for 2008: \$3.00 per student Range of \$5.25–\$7.00 per student with <i>Edusoft Assessment Management System</i></p>	<p>The <i>Assess2Know Benchmark</i> item bank allows districts and schools to create interim assessment programs that follow their district pacing guide or curricula, while being able to assess student mastery of the State Standards tested on the state’s summative assessments. The Science item bank contains items for grades 3–10 aligned to Washington Standards. Districts can use the <i>Edusoft® Assessment Management System</i>, an online test generator, with the item bank to select the standards they want to assess on a particular test. After the items have been selected and the order of the items determined, a PDF or Word document of the form is created so that the assessment can be printed. Alternatively, the assessment can be administered online.</p> <p>Type: Item bank aligned to Washington Standards</p> <p>Purpose: Provides educators with a tool to assess student progress toward instructional objectives, allowing for targeted intervention and remediation</p>	<p>Online, given within one class period.</p> <p>Online or on paper</p> <p>Individual or group</p> <p><i>Assess2Know</i> can be delivered via the <i>Edusoft® Assessment Management System</i> or as a content solution using local scoring and reporting methods.</p> <p>Time: Determined by test developer, dependent on number of items on each assessment</p> <p>Qualification Level: Teacher can administer</p>	<p>The <i>Assess2Know Benchmark</i> Science item bank includes the following numbers of items that are aligned to the Washington State Learning Standards:</p> <table border="0"> <tr><td>Grade 3</td><td>164</td></tr> <tr><td>Grade 4</td><td>280</td></tr> <tr><td>Grade 5</td><td>371</td></tr> <tr><td>Grade 6</td><td>361</td></tr> <tr><td>Grade 7</td><td>371</td></tr> <tr><td>Grade 8</td><td>341</td></tr> <tr><td>Grade 9</td><td>243</td></tr> <tr><td>Grade 10</td><td>776</td></tr> <tr><td>Total items</td><td>2,907</td></tr> </table> <p>All multiple-choice items in the item bank include a stem, correct answer, and three distractors. The stem and all options developed by our item specialists meet readability requirements for the grade level to which they are aligned. All constructed-response items are created with item-specific rubrics. The rubric for each constructed-response item has been developed to support accurate, unbiased, and consistent scoring.</p>	Grade 3	164	Grade 4	280	Grade 5	371	Grade 6	361	Grade 7	371	Grade 8	341	Grade 9	243	Grade 10	776	Total items	2,907	<p><i>Edusoft</i> system scored; hand- and local-scoring options available</p> <p>Score reporting:</p> <p>Available reports, as delivered within the <i>Edusoft</i> system, include:</p> <ul style="list-style-type: none"> • Performance Band Report • Class List Report • Student Performance Reports • Report Builder • School Comparison Reports • Benchmark Exam Labels • Item Analysis • Item Response Report • Intervention Groups • Teacher Tools Test Results • Teacher Tools Labels <p>Scores available in the <i>Edusoft</i> system include raw scores, grade equivalents, age equivalents, and percentiles. The Item Analysis Report lists reliability, validity, difficulty, and discrimination for entire test and per question.</p> <p>Alternate Forms:</p> <p>Unlimited—OSPI or teachers can create as many tests as desired.</p>	<p><i>No independent evidence of technical adequacy is available at this time.</i></p> <p>Publisher claims that, based on the same process used to develop high-stakes tests, instrument is reliable and valid. No details provided.</p> <p>Publisher claims that items are “...tightly aligned to the Washington State Learning Standards at the most granular level.”</p> <p>Bias and sensitivity reviews have been conducted.</p>
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<p><u>Comprehensive Science Assessment</u></p> <p>Options Publishing 4 Center St., PO Box 1749 Merrimack, NH 03054 (800)782-7300 Fax (866) 424-4056 http://www.optionspublishing.com service@optionspublishing.com</p> <p><u>Purpose:</u> Formative, diagnostic</p> <p><u>Grade Levels:</u> 2-8</p> <p><u>Cost:</u> \$14.95 per Teacher’s Guide or Student book. (Bulk discounts available)</p>	<p>Diagnostic assessment, instruction, and test practice come together in the new Comprehensive Science Assessment. Designed to help prepare students for their end-of-year science test, each standards-based book helps you</p> <ol style="list-style-type: none"> 1. Diagnose your students' instructional needs. 2. Review important science concepts with your students. 3. Monitor student understanding as they respond to interactive instruction on each lesson page 4. Assess student progress as they complete tests in Life Science, Earth and Space Science, Physical Science, and Scientific Inquiry. <p>Each level of Comprehensive Science Assessment offers: Two comprehensive, full-length assessments. Interactive content reviews in Life Science, Earth and Space Science, Physical Science, and Science Inquiry.</p>	<p>Pretest in each Teacher Guide to diagnose your students' learning needs. Blackline Masters in each Teacher Guide to assess student competencies in conducting scientific investigations. Practice Test in each Student Book to assess student learning and readiness for your state science test. 15 multiple choice and short response assessments in each student book, covering concepts in 4 major science content areas.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Content Coverage not determined <input checked="" type="checkbox"/> Systems (concepts and principles) <input checked="" type="checkbox"/> Inquiry <input type="checkbox"/> Design (develop and test solutions to problems) 	<p>Teacher-scored; no further information was obtained.</p>	<p><i>No evidence of technical adequacy is available at this time.</i></p>

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<p><u>GoToLearn Science Assessments and Tutorials</u></p> <p>GoToLearn 2201 Avenue K Suite C Plano, TX 75074 (877) 465-3276 http://www.gotolearn.org info@gotolearn.org</p> <p><u>Purpose:</u> Formative, diagnostic</p> <p><u>Grade Levels:</u> 3-11</p> <p><u>Language:</u> Available either in English or English/Spanish (side-by-side) version.</p> <p><u>Cost:</u> CD Product: English only - \$950 per grade - per subject – per campus (unlimited users on that campus) for one year. English/Spanish - \$1,600 - per grade - per subject – per campus (unlimited users on that campus) for one year. Implementation: -0-</p> <p>Database product - “Diagnostic Plus” - \$10 per student (includes Science AND Math). Minimum order \$6,500. Annual license.</p> <p>Implementation - \$250 per campus to create campus/district identifiers, upload student data, etc.)</p> <p>Training: CD Product - \$2,000 / day (two training sessions – 25 teachers each) plus travel and expenses.</p> <p>Diagnostic Plus - \$2,000 / day (two training sessions – one for administrators (Science dept head, curriculum coordinators, testing coordinators etc) and one for teachers – 10-15 trainees per session) plus travel and expenses.</p>	<p>Provides immediate diagnostics of student needs, teaches Fundamentals and Concepts, tests by objective, report by target level (student expectation), contains step-by-step tutorials for every problem. It can be used in the classroom, after school tutoring, or from home. Free updates and tech support for a year.</p> <p>The Demo consists of 10 questions for each grade, with at least one question for each concept.</p> <p>Can be used in the classroom, in the lab, pull-out groups, after-school and summer school.</p> <p>Levels available for elementary and secondary.</p>	<p>Computer based and self-paced.</p> <p>In lab setting, students log on, access the assigned assessment, read question/graph/table and select answer from 4 answer choices.</p> <p>In a classroom setting, teacher can project question on a screen and students use answer sheets.</p> <p>In a setting where computers are not available (pull-out, after-school or summer school setting) questions can be printed and distributed to the students.</p> <p>Qualification level:</p>	<p><input type="checkbox"/> Content Coverage not determined</p> <p><input checked="" type="checkbox"/> Systems (concepts and principles)</p> <p><input type="checkbox"/> Inquiry</p> <p><input type="checkbox"/> Design (develop and test solutions to problems)</p>	<p>Results can be viewed by student (at concept, skill or sub-skill level), class, teacher, campus, or district. Student history can be kept from year-to-year.*</p> <p>Results reporting indicate mastery, weaknesses and record improvement.</p> <p>* Reporting by class, teacher, campus, district is a feature o the database product Diagnostic Plus.</p>	<p><i>No evidence of technical adequacy is available at this time.</i></p>

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<p><u>IAS®- Science Performance Assessment</u></p> <p>Harcourt Assessment, Inc. Attn: Customer Service P.O. Box 599700 San Antonio, TX 78259 (800) 211-8378 Fax: (800) 232-1223 http://www.harcourtassessment.com</p> <p><u>Purpose:</u> Formative, diagnostic</p> <p><u>Grade Levels:</u> 1-11</p> <p><u>Cost:</u> \$43-48 per kit, which includes a Student Booklet, Directions for Administering, and Scoring Rubric.; 14 kits available</p>	<p>IAS®- <i>Science</i> presents problems requiring a knowledge of science concepts and problem-solving skills. They require students to integrate discrete skills to solve a simple problem they have defined. Students record their methods for exploring the problems, observations, and what they have learned. Each kit is targeted to a 3-grade span (1st-2nd-3rd, for example). 14 kits are available which meet various science content strands.</p>	<p>Two 45-minute sessions are used to administer; no further information was obtained.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Content Coverage not determined <input checked="" type="checkbox"/> Systems (concepts and principles) <input type="checkbox"/> Inquiry <input type="checkbox"/> Design (develop and test solutions to problems) 	<p>Holistic and Analytic Scores; Hand-scored locally or by Harcourt Educational Measurement.</p>	<p><i>No evidence of technical adequacy is available at this time.</i></p>

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<p><u>KeyLinks Science</u></p> <p>Harcourt Assessment, Inc. Attn: Customer Service P.O. Box 599700 San Antonio, TX 78259 (800) 211-8378 Fax: (800) 232-1223 http://www.harcourtassessment.com</p> <p><u>Purpose:</u> Evaluate students' skills while helping them develop test-taking strategies. Formative, diagnostic</p> <p><u>Grade Levels:</u> 1-12</p> <p><u>Cost:</u> KeyLinks - Science Packages (1998) - Includes package of 25 Student Booklets and one Teacher's Manual. ISBN: 015-8294-467. Unit Price: \$55.75 each package.</p>	<p>This interactive instructional assessment helps teachers evaluate students' performance, while developing their test-taking strategies. Suggestions for follow-up activities provide teachers with ideas for extending the <i>KeyLinks</i> activities to additional classroom instruction and encourages learning any time during the year. <i>KeyLinks</i> Science activities follow closely the content and process skills of the National Science Foundation Education Standards and the Benchmarks for Science Literacy. Extension activities link science to mathematics, the language arts, and other content areas.</p> <p>This appears to be an updated version of IAS Science Assessments. 9 packages are available which are given approximate grade levels (for example, 2.5-3.5).</p>	<p>Using a series of structured activities and classroom dialogue, KeyLinks helps students understand how the test items relate to what they're taught in the classroom. The question-and-answer format of KeyLinks is similar to that of standardized tests. KeyLinks is a learning experience that encourages students to talk with their teachers and to understand the strategies they should use to arrive at the best answers. By combining multiple-choice and open-ended formats, KeyLinks simulates standardized testing as well as routine classroom work. The questions provide teachers with information about students' misconceptions and provide insight into the processes students use to arrive at their answers, rather than just giving the answers.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Content Coverage not determined <input checked="" type="checkbox"/> Systems (concepts and principles) <input type="checkbox"/> Inquiry <input type="checkbox"/> Design (develop and test solutions to problems) 	<p>The easy-to-follow <i>Teacher's Manual for Administering and Interpreting</i> includes directions for guiding students through each activity and explaining why wrong answers are wrong. It also provides scoring rubrics for the open-ended questions and the extended writing piece. Suggestions for follow-up activities provide teachers with ideas for extending the KeyLinks concepts to additional classroom instruction.</p>	<p><i>No evidence of technical adequacy is available at this time.</i></p>

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<p><u>NWEA Science Assessments</u></p> <p>5885 SW Meadows Road Suite 200 Lake Oswego, OR 97035 (503) 624-1951 Fax: (503) 639-7873 http://www.nwea.org/assessments</p> <p><u>Purpose:</u> Formative, summative, and diagnostic.</p> <p><u>Grade Levels:</u> 3-10</p> <p><u>Cost:</u> No cost information was available.</p>	<p>NWEA's combined Science test respects instructional time by using an extremely efficient computerized adaptive test to provide useful information about where a student is learning in two areas of science: General Science and Concepts and Processes. Testing students in science now helps districts prepare them for the No Child Left Behind (NCLB) mandates.</p> <p>Tests that align to the content and goal structures of Washington state standards are available.</p>	<p>NWEA's combined Science test respects instructional time by using an extremely efficient computerized adaptive test to provide useful information about where a student is learning in two areas of science: General Science and Concepts and Processes.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Content Coverage not determined X Systems (concepts and principles) X Inquiry <input type="checkbox"/> Design (develop and test solutions to problems) 	<p>Two overall subject-area scores are produced. In addition, goal-area scores in each realm provide further insight into a student's instructional level. Accurate, timely results allow for diagnosis of student academic needs in science so that instruction can be targeted. State aligned for several states, and nationally aligned for others, NWEA Science tests provide relevant results. The science assessment can be used together with NWEA's <u>DesCartes: A Continuum of Learning</u> to translate science scores into the skills and concepts a student may be ready to learn allowing educators to better target instruction. The General Science portion of the test assesses a student's understanding of specific science concepts within the three major domains of science: life sciences, earth and space sciences, and physical sciences. The Concepts and Processes portion of the test measures a student's performance in both the processes used in science and the major themes underlying the science disciplines. Each subject-area has a unique alignment to the RIT scale. As a result, scores between subjects are not equivalent. Additionally, within science, the two scales - concepts and processes, and general science - are not equivalent.</p>	<p><i>No evidence of technical adequacy is available at this time.</i></p>

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<p><u>Stanford Open-Ended Assessments: Science</u></p> <p>Harcourt Assessment, Inc. Attn: Customer Service P.O. Box 599700 San Antonio, TX 78259 (800) 211-8378 Fax: (800) 232-1223 http://www.harcourtassessment.com</p> <p><u>Purpose:</u> Formative, diagnostic</p> <p><u>Grade Levels:</u> 1.5-12</p> <p><u>Cost:</u> \$27.30 -71.50 per kit. Includes 1 Open-Ended Test Booklet, 1 Directions for Administering, and Reviewer’s Edition.</p>	<p>These valuable open-ended assessments address important educational objectives best measured with student-constructed responses. This assessment contains items that address applications of concepts, decision-making and problem-solving, and scientific inquiry. The items are evenly distributed among the life, earth, and physical sciences. It can be incorporated into instructional activities and student portfolios. 8 different leveled kits are available. Open-Ended Training Sets are available by special request.</p>	<p>Paper/pencil administration. Test booklets are provided and an administration guide is also provided when the assessment is purchased.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Content Coverage not determined <input checked="" type="checkbox"/> Systems (concepts and principles) <input type="checkbox"/> Inquiry <input type="checkbox"/> Design (develop and test solutions to problems) 	<p>Hand-scorable locally or by Harcourt Assessment</p> <p>Provides the following score information: Criterion-Referenced Scores: Performance Standards; Objective-Referenced Scores: Content Clusters and Process Clusters; Scaled Scores, National and Local Percentile Ranks and Stanines, Grade Equivalents, and Normal Curve Equivalents.</p> <p>Normative sample chosen to represent national school population based on 1990 census and 1994 NCES update. Districts from 49 states and District of Columbia participated for a total of approximately 140,000 students.</p>	<p><i>Some evidence of technical adequacy.</i></p> <p>Internal consistency reliability from .68 to .88 for form S, from .66 to .83 for form T across levels.</p> <p>Alternate forms reliability from .63 to .76 across levels.</p> <p>Concurrent validity with Otis-Lennon Total from .61 to .76 across levels.</p> <p>Sensitivity and bias review conducted.</p>

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<p><u>Student Progress Monitoring System® (SPMS)</u></p> <p>Vantage Learning 110 Terry Drive, Suite 100 Newtown, PA 18940 (800) 230-2213 Fax: (215) 579-8391 http://www.vantagelearning.com</p> <p><u>Purpose:</u> Screening, formative, diagnostic.</p> <p><u>Grade Levels:</u> K-12</p> <p><u>Cost:</u> No cost information was available.</p>	<p>The Student Progress Monitoring System® (SPMS) is a powerful suite of reading, math, and science assessment tools for teachers, students, and administrators. Designed for ease of use and to meet the needs of K-12 schools and districts, SPMS measures student progress in core academic skills and allows for prescriptive intervention and individualized learning strategies to help students meet proficiency levels and academic standards.</p> <p>This is a system that schools, districts, etc. can hire to create assessment tools geared toward their district or state standards/requirements, but does not have a set assessment tool that has been evaluated.</p>	<p>Paper/pencil or online.</p>	<p>X Content Coverage not determined</p> <p><input type="checkbox"/> Systems (concepts and principles)</p> <p><input type="checkbox"/> Inquiry</p> <p><input type="checkbox"/> Design (develop and test solutions to problems)</p>	<p>The SPMS allows educators to tailor common assessments at the building or district level to best serve the individual needs of teachers, students and administrators. The use of common assessments provide multiple opportunities to adjust instructional practices so all students succeed and to provide teachers with critical insight into how well students understand the standards, what changes are needed in instructional strategies, and how to best meet the needs of every student. The results of these assessments are provided quickly and they are used to plan instruction for the next day or the next week. These systems must be supported by administrators who provide time and resources for the creation of common, aligned assessments and for analyzing results and making instructional plans based on those results. SPMS delivers immediate test results (with online and/or scanning), allowing teachers to redirect instruction to meet the needs of individual students.</p>	<p><i>No evidence of technical adequacy is available at this time.</i></p>