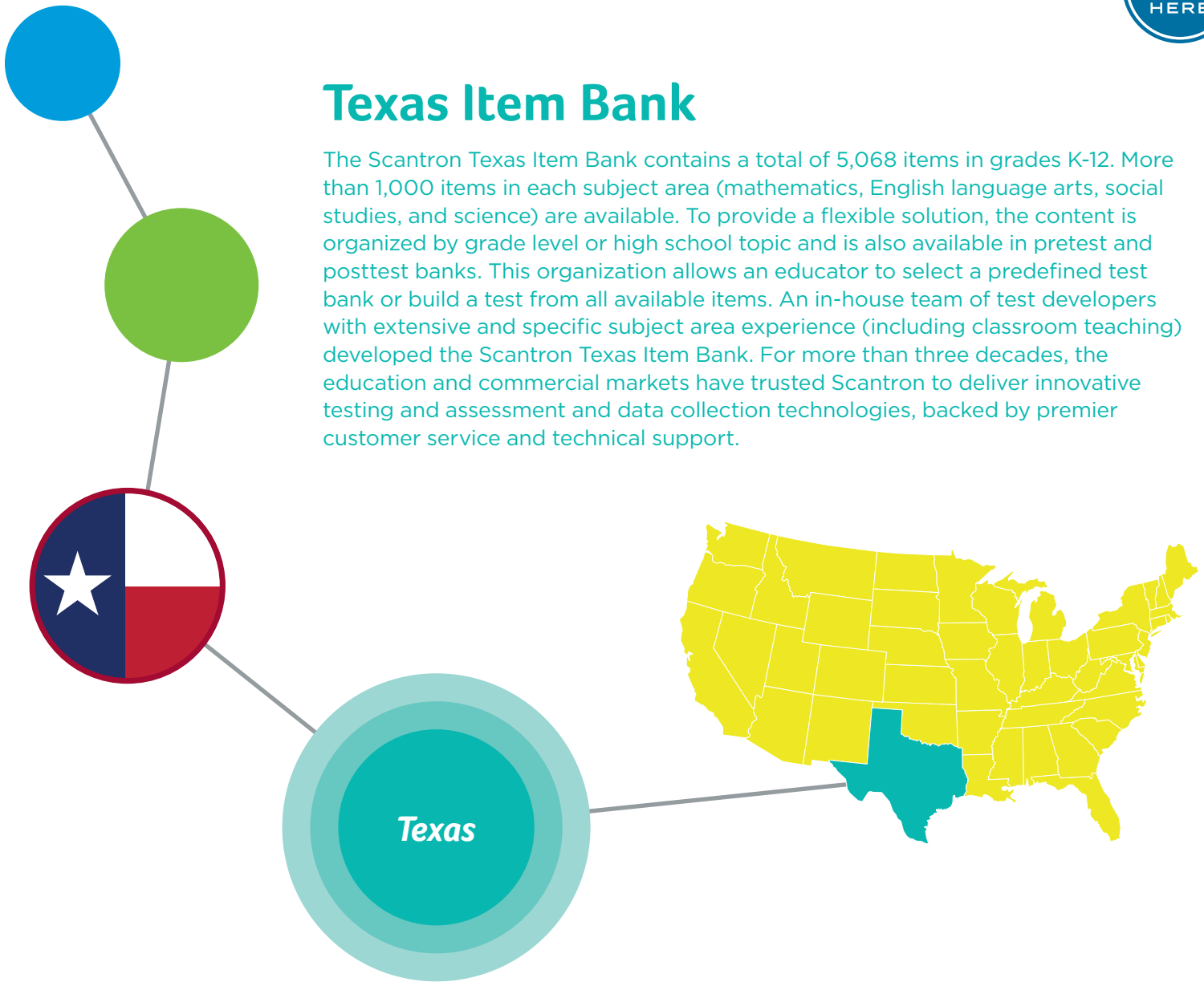# Texas Item Bank

The Scantron Texas Item Bank contains a total of 5,068 items in grades K-12. More than 1,000 items in each subject area (mathematics, English language arts, social studies, and science) are available. To provide a flexible solution, the content is organized by grade level or high school topic and is also available in pretest and posttest banks. This organization allows an educator to select a predefined test bank or build a test from all available items. An in-house team of test developers with extensive and specific subject area experience (including classroom teaching) developed the Scantron Texas Item Bank. For more than three decades, the education and commercial markets have trusted Scantron to deliver innovative testing and assessment and data collection technologies, backed by premier customer service and technical support.

*Texas*

## Comprehensive, State Standard Aligned Items

The Scantron Texas Item Bank was first released in October, 2011 to help K–12 educators create tests and interim assessments for their students and has been updated regularly based on the most recent standards. The Scantron content team carefully reviewed documentation available from the Texas Education Agency. The item banks were designed based on guidelines for the State of Texas Assessments of Academic Readiness (STAAR), which includes grades 3–8 and a number of high school end-of-course assessments. In addition, process skills in social studies, science, and mathematics are embedded and aligned within

the assessment items rather than in isolation. The structure of these assessments and the level of complexity are based on the STAAR guidelines. The Texas Essential Knowledge and Skills were used to identify essential standards for grade levels and high school topics which were not yet defined using the STAAR model. However, the high school mathematics item banks for calculus were created based on the College Board Advanced Placement curriculum topics. This alignment to state standards provides administrators and teachers with standards-based reports that inform instruction.

## Rigorous Item Development Process

Scantron employs a team of experienced content experts who build and maintain the Scantron Texas Item Bank. This team of experts draws from target item difficulty levels and curricular domains, along with a library of specifically targeted resources (nationally adopted textbooks, grade appropriate literature, etc.). Further, a variety of readability measures are used to calculate and verify the readability level of any passages aligned to items. Each item draft is then submitted to a team of independent editors for a peer review covering completeness, grammatical correctness, and grade-appropriateness.

Additional training on Item Writing and Item Banking is required, with training materials developed from the following resources:

- American Educational Research Association, American Psychological Association, & National Council on Measurement in Education. Standards for Educational and Psychological Testing. Washington, DC: American Psychological Association, 1999.

- Haladyna, Thomas M. Developing and Validating Multiple-Choice Test Items. Mahwah, New Jersey: Lawrence Erlbaum Associates, 1999.

- Roid, Gale H. and Thomas Haladyna. A Technology for Test-Item Writing. Orlando, Florida: Academic Press, 1982.

Scantron's Item Editing Team consists of professional educators (credentialed teachers and university professors) from across the United States. This team carefully analyzes question stem and response choice construction. The analysis includes areas such as the likely discrimination index for response choices, age-appropriateness, interest level, bias, sentence structure, vocabulary, clarity, grammar and spelling.

Further, a different team of educational experts from a sample of national educational communities representing diverse cultural backgrounds conducts a bias review. Bias reviewers analyze how many passages and items have male or female main characters, and whether each character has active or passive voice. In addition, the bias editors ensure passages and items contain ethnic or cultural diversity.

## Pretest and Posttest Item Banks

Pretest and Posttest item banks are organized for educators who prefer to use a preset structure. The number of items in each Texas Pretest and Posttest Bank varies based on grade level and subject area. Each set of tests (pretest/posttest) include the same number of items and assess the same standards. There are a minimum of 30 items per pretest and posttest; most of the pretest and posttest banks contain 40–60 items. The English language arts test banks in grades K–8 provide assessments in reading. In addition, writing prompts are available for grade 4 and grade 7 in the English language arts grade level item banks. Each high school English pretest and posttest includes 72 items, covering both reading and writing standards. The mathematics assessments in grades 3–8 and all high school mathematics end-of-course test banks include 4–6 griddable items. The science assessments in grades 5–8 and the chemistry and physics item banks also contain 1–5 griddable items.

## Part of a Complete Assessment Solution

Scantron's solution combines a research-based, content-rich computer adaptive test and a content-neutral, highly flexible testing platform that educators use to develop and administer online and paper-based tests. Scantron's complete assessment solution helps educators meet accountability requirements and raise the level of student achievement through a unique combination of standards-based assessment and computer-adaptive diagnostic testing.

# Scantron Texas Item Bank Structure

| Mathematics | Number of Items | English Language Arts | Number of Items | Social Studies | Number of Items | Science | Number of Items |
|---|---|---|---|---|---|---|---|
| Kindergarten | 60 | Kindergarten | 60 | Kindergarten | 60 | Kindergarten | 60 |
| Grade 1 | 80 | Grade 1 | 80 | Grade 1 | 80 | Grade 1 | 80 |
| Grade 2 | 80 | Grade 2 | 80 | Grade 2 | 80 | Grade 2 | 80 |
| Grade 3 | 92 | Grade 3 | 80 | Grade 3 | 104 | Grade 3 | 84 |
| Grade 4 | 96 | Grade 4 | 90 | Grade 4 | 104 | Grade 4 | 86 |
| Grade 5 | 100 | Grade 5 | 92 | Grade 5 | 104 | Grade 5 | 88 |
| Grade 6 | 104 | Grade 6 | 96 | Grade 6 | 104 | Grade 6 | 88 |
| Grade 7 | 108 | Grade 7 | 102 | Grade 7 | 104 | Grade 7 | 108 |
| Grade 8 | 112 | Grade 8 | 104 | Grade 8 | 104 | Grade 8 | 106 |
| Pre-Calculus | 110 | English 1 | 144 | U.S. History | 136 | Biology/ Life Sciences | 108 |
| Calculus AB | 102 | English 2 | 144 | World History | 136 | Chemistry | 104 |
| Calculus BC | 42 | English 3 | 144 | World Geography | 136 | Physics | 100 |
| Math Models | 110 | | | | | | |
| Algebra 1 | 108 | | | | | | |
| Algebra 2 | 100 | | | | | | |
| Geometry | 104 | | | | | | |
| Total per Subject | 1,508 | | 1,216 | | 1,252 | | 1,092 |

## Total Across Subjects: 5,068

## About Us

Scantron® provides a comprehensive set of solutions that help improve student outcomes in K–12 education. We offer software and services to meet the needs of customers' assessment programs regardless of where they are on the technology spectrum—pure paper, pure online, or anywhere in between.