



Scholastic Math Inventory (SMI) College & Career, an adaptive assessment that measures math achievement and growth from kindergarten through Algebra II, will be released in July 2014. Based on the Quantile Framework® for Mathematics, **SMI College & Career** offers educators dynamic analytics, actionable data, tools for differentiating instruction, and embedded professional learning.

SMI College & Career tracks student growth toward college and career readiness by employing enhanced rigor, in line with more rigorous state standards. New program development includes:

Item Bank Enhancements

- Every SMI item was reviewed by a team of assessment and content development specialists to ensure alignment to new college and career readiness standards.
- Item performance statistics were reviewed to examine item quality using quantitative analyses, including a Rasch-like analysis, to establish empirical criteria for retaining items.
- Over half of the SMI item bank was revised and a portion of items retired.
- Over 1,400 new items were added to the SMI bank, including a large volume at high levels of achievement.
- A complete Item Response Theory (IRT) calibration of the item bank will be conducted over the coming months to further improve the precision of SMI results.

Algorithm Enhancements

- The minimum and maximum SMI test lengths were increased to improve score accuracy.
- Subsequent SMI tests will begin at a slightly lower level of difficulty to build student confidence and enhance the testing experience.
- New growth mindset messages encourage students to focus and persevere throughout the test.
- Advanced students will receive a greater range of items in terms of difficulty to better assess their skills.

Additional Program Enhancements

- Screeners for Early Numeracy and Basic Fact Fluency identify struggling students early.
- English and Spanish read-alouds for text-based items support accurate measurement of math proficiency.
- Dynamic, on-demand data analytics monitor and track students' growth and progress.
- Access to district-wide data provides maximum transparency to leaders.
- Mobile edition helps students prepare for Next Generation Assessments.



New Performance Levels

- To align more closely to widely used college and career readiness standards, SMI performance levels have increased in rigor in this release.

Performance Level Ranges by Grade:

| Grade | Below Basic | Basic | Proficient | Advanced |
|--------------|--------------------|--------------|-------------------|-----------------|
| K | EM400–EM185 | EM190–5 | 10–175 | 180 and Above |
| 1 | EM400–60 | 65–255 | 260–450 | 455 and Above |
| 2 | EM400–205 | 210–400 | 405–600 | 605 and Above |
| 3 | EM400–425 | 430–620 | 625–850 | 855 and Above |
| 4 | EM400–540 | 545–710 | 715–950 | 955 and Above |
| 5 | EM400–640 | 645–815 | 820–1020 | 1025 and Above |
| 6 | EM400–700 | 705–865 | 870–1125 | 1130 and Above |
| 7 | EM400–770 | 775–945 | 950–1175 | 1180 and Above |
| 8 | EM400–850 | 855–1025 | 1030–1255 | 1260 and Above |
| 9 | EM400–940 | 945–1135 | 1140–1325 | 1330 and Above |
| 10 | EM400–1020 | 1025–1215 | 1220–1375 | 1380 and Above |
| 11 | EM400–1150 | 1155–1345 | 1350–1425 | 1430 and Above |
| 12 | EM400–1190 | 1195–1385 | 1390–1505 | 1510 and Above |

*Emerging Mathematician

Potential Changes Due to New Performance Levels

The Below Basic (BB) range is wider than in the past version and the cut-scores for each of the higher performance levels has been raised; therefore, districts may see more students identified for math intervention programs.

New Strand Profile

- To support the measurement of skills and concepts from kindergarten through Algebra II and align to college and career readiness frameworks, items in the new edition are organized around the following five strands:
 - Numbers & Operations
 - Algebraic Thinking, Patterns, and Proportional Reasoning
 - Geometry, Measurement, and Data
 - Statistics & Probability (Grades 6 and above only)
 - Expressions & Equations, Algebra, and Functions (Grades 6 and above only)
- In Grades K–5, emphasis is on:
 - Numbers & Operations
 - Algebraic Thinking, Patterns, and Proportional Reasoning
- Beginning in Grade 6, emphasis shifts to:
 - Algebraic Thinking, Patterns, and Proportional Reasoning
 - Expressions & Equations, Algebra, and Functions

Timeline of Releases

- **July 7**—New items added (flash client) to Scholastic support site for hosted and local customers with a support plan.
- **August 1**—DVDs released for new local customers. Updated version of SAM (v2.3.2) will need to be downloaded from the product support site and installed on the server prior to running the SMI v2.3.1 installer from DVD.
- **On or before September 2**—Updates posted to support site for both local and hosted customers. Hosted customers will be automatically updated over the weekend. Local customers can download the update/patch from the product support site. This update includes item audio read aloud in English and Spanish, revised reports, and a very small set of additional items. The addition of this set of items to the pool is expected to create negligible amounts of score variation.

Customers will have to go onto the Scholastic Product Support Website (edproductsupport@scholastic.com) to download additional updates after installing the CD in order to give the correct assessment version to students.

Recommendation

- Test administration should proceed as normal, even if scheduled prior to the September 2 update, for all students.

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