

Winter 2023-2024 Grade 4 Mathematics Growth Assessment

In the 2023-2024 school year, students in Virginia public schools will take growth assessments in Grades 3-8 Reading and Mathematics. Legislation passed in the 2021 Virginia General Assembly ([HB2027](#) and [SB1357](#)) requires these assessments be administered to students once in the fall and once in the winter (mid-year). In addition to the growth assessments, the Standards of Learning (SOL) tests for Grades 3-8 Reading and Mathematics will continue to be administered. Test items at, below, and above a student’s grade level may be delivered online via the computer adaptive algorithm as appropriate for the student. **Please note that the winter 2023 computer adaptive test for Grade 4 Mathematics will begin with questions that assess [Grade 4 Mathematics](#) SOL that are primarily taught first semester⁺, and the overall test may include test questions that assess Grade 3, Grade 4, or Grade 5 Mathematics SOL.**

Test Blueprint Summary Table

Reporting Category	Grade 4 SOL Eligible to Appear in the Winter 2023 Growth Assessment ⁺	Number of Items Winter 2023 Growth Assessment Computer Adaptive (CAT) Format ^{**}	Number of Items Winter 2023 Growth Assessment Paper Format
Number and Number Sense	4.1a-c 4.2a*, b*, c 4.3a-c, d*	16 (about 67% of the test)	8 (about 25% of the test)
Computation and Estimation	4.4a*, b*, c*, d 4.5a, b*, c 4.6a*, b		9 (about 29% of the test)
Measurement and Geometry	4.7 4.8a-d 4.9 4.10a-b 4.11 4.12	4 (about 16% of the test)	7 (about 23% of the test)
Probability, Statistics, Patterns, Functions, and Algebra	4.13a-c 4.14a-c 4.15 4.16	4 (about 16% of the test)	7 (about 23% of the test)
Total Number of Items on Test		24	31

⁺Bold font in the table indicates the SOL that are primarily taught first semester, based on commonalities among pacing charts collected in 2020 from several school divisions.

*Items measuring these SOL will be completed without the use of a calculator. SOL test items measured without the use of a calculator will include a “no calculator” picture and will be completed without the use of a calculator. Calculator-active items will have the online calculator included with the item. Please refer to the list of [Online Mathematics Tools](#) available on the Grades 3-8 Mathematics Growth Assessments for additional information.

**The online CAT includes multiple-choice questions and technology-enhanced items (TEI). The number of TEI on the CAT can range from 10% to 30% as the test meets the blueprint requirements and adapts to the performance level of the individual student.

Technology-Enhanced Item Types

There are different types of technology-enhanced items (TEI). Some examples include:

- drag and drop,
- hot spot,
- bar graph, and
- fill-in-the-blank.

[Introduction to TestNav 8: Multiple-Choice/Technology-Enhanced Item Tests](#) provides a brief description of the different types of TEI, including what is needed for a TEI to be considered "answered."