

Student Expectations

Both Texas and Louisiana modeled their state mathematics standards after the National Council of Teachers of Mathematics (NCTM) standards, and in Grades K-8 the strands used in the Texas Essential Knowledge and Skills (TEKS) and the Louisiana Grade Level Expectations (GLEs) are more or less parallel as illustrated below:

| Texas | Louisiana |
|---|---|
| Number, operation, and quantitative reasoning | Number and number relations (N) |
| Patterns, relationships, and algebraic thinking | Algebra (A) Patterns, relations, and functions (P) |
| Measurement | Measurement (M) |
| Geometry and spatial reasoning | Geometry (G) |
| Probability and statistics | Data analysis, probability, and discrete math (D) |

In matching individual student expectations for the side-by-side comparison, the TEKS format is used as the baseline. Due to slight differences between the states concerning the division and definition of strands, some Louisiana GLEs may match most closely with a TEKS student expectation in another area. Generally, however, the Texas strand of Patterns, Relationships, and Algebraic Thinking comprises GLEs in the two Louisiana strands of Algebra and Patterns, Relations, and Functions.

Overview of the Side-by-Side Analysis

In some cases, there is no equivalent Louisiana GLE for a particular TEKS at this grade level. However, such expectations may be addressed at another grade level in Louisiana. In other cases, a Louisiana expectation actually goes beyond the Texas expectation with which it was paired. Teachers are encouraged to review source documents from each state to gain additional insight on what students should know and be able to do.

Examples of the TEKS mathematics content that do not appear to be covered by the GLEs at this grade level include:

- use models such as concrete objects, pictorial models, and number lines, to add, subtract, multiply, divide integers and connect actions to algorithms.
- generate formulas involving unit conversions, perimeter, area, circumference, volume, and scaling;
- graph data to demonstrate relationships in familiar concepts such as conversions, perimeter, area, circumference, volume, and scaling;
- make a net of the surface area of a three-dimensional figure;
- connect models for volumes of prisms and cylinders to formulas of prisms and cylinders;
- describe a set of data using mean, median, mode, and range.

Examples of GLEs that do not appear to be covered by the TEKS at this grade level include:

- recognize and apply addition and subtraction as inverse operations;
- use ordinal numbers through 31st as they relate to the calendar;
- measure capacity using cups;
- identify the thermometer as a tool for measuring;
- from a given number between 1 and 100, count forward and backward; and
- explain patterns created with concrete objects, numbers, shapes, and colors.

There are no GLEs for the TEKS Underlying Processes and Mathematical Tools sections. The pervasive mathematical themes such as problem solving, mathematics as communication, and mathematics as numerical intuition are included in the Louisiana Mathematics Framework for all grade levels.

Assessment

There is no statewide testing in either Louisiana or Texas at this grade level. Louisiana utilizes the Integrated Louisiana Educational Assessment Program (iLEAP), a norm-referenced testing program at Grades 3, 5, 6, 7, and 9. For grades 4 and 8, Louisiana employs the criterion-based Louisiana Educational Assessment Program for the 21st Century (LEAP 21). It is important to note that grade promotion criteria are part of LEAP 21 for grades 4 and 8. Texas uses the Texas Assessment of Knowledge and Skills (TAKS) to assess student performance in mathematics in Grades 3-11 with promotion and retention requirements in grades 3, 5 and 8.

Coding in the Side-by-Side Analysis

The numbers in parentheses that follow the GLE statement refer to the Louisiana Mathematics

Benchmark addressed. In the case of P-1-E, for example, “P” stands for Patterns, Relations, and Functions. The “1” indicates the first Benchmark for the Standard, and the “E” stands for Elementary School. Benchmarks are broader statements, somewhat analogous to the Texas Knowledge and Skill statements shaded in gray in the side-by-side analysis, which are specified in Louisiana for grade ranges K-4, 5-8, and 9-12. More about Louisiana Benchmarks can be found in the following document from the Louisiana State Department of Education: <http://www.doe.state.la.us/lde/uploads/2910.pdf>.

More information about the Louisiana Grade Level Expectations is available at <http://www.doe.state.la.us/lde/ssa/1819.html>.