

Numeracy Screener Foundational Skills

The K–3 LDOE Numeracy Screener identifies students with a High Dosage Tutoring (HDT) flag based on their performance in foundational skills in the areas of fluency and magnitude. These results provide information about student development of key numeracy skills that support access to grade-level mathematics. Student performance indicates areas of concern related to efficient and accurate fluency with number concepts and understanding magnitude, including recognizing, comparing, and reasoning about quantities and their relative values. Participation in HDT will provide additional opportunities to build and strengthen these prerequisite and current year foundational skills, supporting greater confidence and success with grade-level mathematics.

Using this Document

The chart under each grade level provides two sets of information connected to the [Louisiana Student Standards for Mathematics \(LSSM\)](#).

- Prerequisite foundational skills are the skills students should have mastered by the end of the prior school year.
- LSSM Foundational Skills (FS) are the skills that mathematically proficient students can reliably use by the end of the grade in which they are enrolled.

Read the coding for Kindergarten prerequisite foundational skills: CM 1.1.4 represents Cognitive Development & General Knowledge: Mathematics (CM), standard 1, indicator 1, four-year-old 4.

Read the coding for foundational skills as follows: K-FS2 represents grade K, Foundational Skill number 2.

Kindergarten

The chart below outlines essential foundational skills for this grade level, along with the prerequisite skills students should have upon completing the prior year. Kindergarten prerequisite skills listed below represent the four-year-old standards in the [Louisiana Early Learning and Development Standards](#).

Prerequisite Foundational Skills	LSSM Foundational Skills Developed by the End of Grade K
CM 1.1.4 Rote count to 20 with accuracy. Tell what number (1-10) comes next in order by counting.	K-FS1. Count to 100 by tens and ones.
CM 1.6.4 Identify written numerals 0-10 by name and match each to counted objects. CM 1.7.4 Read and write some numerals up to 10.	K-FS2. Read and write numbers 0-20.
CM 1.2.4 Accurately count up to ten objects in a structured arrangement with one-to-one correspondence.	K-FS3. Count out 0-20 objects and count groups of objects up to 20.
CM 1.3.4 Tell how many objects are in a group by giving the last number counted (cardinality).	K-FS4. Count to answer “How many?”
CM 1.4.4 Recognize and name the number of items in a small set (up to five) without counting (subitizing).	K-FS5. Subitize (i.e., instantly recognize without needing to count individually) groups of images or objects to recognize the quantity.
CM 1.5.4 Compare two groups of objects and identify whether the number of objects in one group is more, less, or the same as the number of objects in the other group.	K-FS6. Compare two numbers between 1 and 20 to identify which is greater or less.
CM 2.3.4 Solve simple addition and subtraction problems by using concrete objects or fingers during play and daily activities (e.g., If we have 3 apples and eat 1, how many apples do we have left?).	K-FS7. Fluently add and subtract within five.

Grade 1

The chart below outlines essential foundational skills for this grade level, along with the prerequisite skills students should have upon completing the prior year.

Prerequisite Foundational Skills	LSSM Foundational Skills Developed by the End of Grade 1
K-FS7. Fluently add and subtract within five.	1-FS1. Fluently add and subtract within 10.
K-FS7. Fluently add and subtract within 5. Identify equivalent sums or differences of one-digit numbers.	1-FS2. Identify equivalent sums or differences of one-digit numbers. Ex. $6 - 2 = 2 + 2$
K-FS4. Count to answer “How Many” questions. Add and subtract within 10.	1-FS3. Determine the missing number in an equation with numbers less than or equal to 10. Ex. $8 + ? = 10$; $5 = \square - 3$.
K-FS4. Count to answer “How Many” questions. Add and subtract within 10.	1-FS4. Given a two-digit number, mentally find 10 more or 10 less.
K-FS1. Count to 100 by tens and ones.	1-FS5. Count to 120 by 5’s.
K-FS2. Read and write numbers 0-20.	1-FS6. Read and write numbers through 120.
K-FS6. Compare two numbers between 1 and 20 to identify which is greater or less.	1-FS7. Compare numbers up to 100, identifying whether one number is greater than, less than, or equal to another.

Grade 2

The chart below outlines essential foundational skills for this grade level, along with the prerequisite skills students should have upon completing the prior year.

Prerequisite Foundational Skills	LSSM Foundational Skills Developed by the End of Grade 2
1-FS1. Fluently add and subtract within 10.	2-FS1. Know all sums of two one-digit numbers by memory.
1-FS1. Fluently add and subtract within 10. 1-FS3. Determine the missing number in an equation with numbers less than or equal to 10. Ex. $8 + ? = 10$; $5 = ?$	2-FS2. Mentally add and subtract within 20.
1-FS1. Fluently add and subtract within 10. 1-FS3. Determine the missing number in an equation with numbers less than or equal to 10. Ex. $8 + ? = 10$; $5 = ?$ 1-FS4. Given a two digit number, mentally find 10 more or 10 less.	2-FS3. Fluently add and subtract within 100 using strategies.
1-FS5. Count to 120 by 5's.	2-FS4. Count within 1000 by 2s, 5s, and 10s.
1-FS6. Read and write numbers through 120.	2-FS5. Read and write numbers within 1000.
1-FS4. Given a two-digit number, mentally find 10 more or 10 less.	2-FS6. Given a three-digit number, mentally find 100 more or 100 less.
1-FS7. Compare numbers up to 100, identify whether one number is <i>greater than</i> , <i>less than</i> , or <i>equal to</i> another.	2-FS7. Compare numbers up to 1000, identifying whether one number is greater than, less than, or equal to another.
1-FS3. Determine the missing number in an equation with numbers less than or equal to 10. Ex. $8 + ? = 10$; $5 = ?$ 1-FS7. Compare numbers up to 100, identify whether one number is <i>greater than</i> , <i>less than</i> , or <i>equal to</i> another.	2-FS8. Measure to determine how much longer one object is than another using standard length units.

Grade 3

The chart below outlines essential foundational skills for this grade level, along with the prerequisite skills students should have upon completing the prior year.

Prerequisite Foundational Skills	LSSM Foundational Skills Developed by the End of Grade 3
2-FS4. Count within 1000 by 2s, 5s, and 10s. <i>*Multiplication is introduced in grade 3. All prior counting, addition, and subtraction skills build conceptual understanding of multiplication and division fact families.</i>	3-FS1. Know all products of two one-digit numbers from memory.
2-FS4. Count within 1000 by 2s, 5s, and 10s. <i>*Division is introduced in grade 3. All prior counting, addition, and subtraction skills build conceptual understanding of multiplication and division fact families.</i>	3-FS2. Know all quotients of numbers within 100 by memory.
2-FS2. Know all sums of two one-digit numbers by memory. 2-FS2. Mentally add and subtract within 20. 2-FS3. Fluently add and subtract up to 100 using strategies. 2-FS6. Given a three-digit number, mentally find 100 more or 100 less.	3-FS3. Fluently add and subtract within 1,000.
2-FS7. Compare numbers up to 1000, identifying whether one number is greater than, less than, or equal to another.	3-FS4. Compare numbers up to 100,000, identifying which are greater than, less than, or equal to each other.
2-FS4. Count within 1000 by 2s, 5s, and 10s. 2-FS3. Fluently add and subtract up to 100 using strategies. 2-FS6. Given a three digit number, mentally find 100 more or 100 less. 2-FS7. Compare numbers up to 1000, identifying whether one number is greater than, less than, or equal to another.	3-FS5. Estimate and round whole numbers to the nearest 10 and 100.
2-FS4. Count within 1000 by 2s, 5s, and 10s.	3-FS6. Identify equivalent fractions with denominators limited to 2, 3, 4, 6, and 8.