

# MAP Growth K-2 reading & mathematics content

MAP® Growth™ K-2 is not a single assessment, but a trio of computer-based assessment components:

- Screening
- Skills checklists
- Growth

Growth (adaptive, appropriate for universal screening and growth measurement) is the central component, which can be supplemented with the screening tests and skills checklists to dig more deeply into foundational skills throughout the year.

The **screening** assessments provide baseline information for new students in the earliest stages of learning (e.g., in kindergarten).

The **skills checklist** assessments provide information about specific skills and concepts (e.g., phonological awareness, phonics and concepts of print within reading, and number sense and computation within mathematics). They can be administered as many times as necessary during the school year, at the teacher's discretion. For instance, they can be used in between Growth assessments to determine which skills require the greatest focus.

The **growth** assessments within MAP Growth and MAP Growth K-2 are recognized by the Center on Response to Intervention as universal screening tools. They adapt to the level of difficulty appropriate for each student and are designed to be administered up to four times a year (fall, winter, spring, and summer). They provide growth data (using the stable RIT scale to track growth within and across grades), and a Lexile® range for reading. Teachers use these adaptive assessments to better understand where students are on their learning journey, regardless of whether the student is on, above, or below grade level.

The key content areas covered are:

## Literacy

- Phonological awareness
- Phonics
- Concepts of print
- Word structure and meaning
- Comprehension
- Writing

## Mathematics

- Computation and problem-solving
- Number sense
- Measurement and geometry
- Statistics and probability
- Algebra

Following is a breakdown of the skills assessed in each of the MAP Growth K-2 assessments.

## Screening

There are two screening assessments: one for early literacy and another for mathematics. The numbers in parentheses below represent the number of items on each assessment.

### EARLY LITERACY (33 ITEMS)

#### Phonological awareness

Matching sounds

Rhyming

Manipulating sounds

#### Visual discrimination/Phonics

Visual discrimination

Letter identifications

Matching sounds to letters

#### Concepts of print

Understanding prereading behaviors

Orientation to the page

Identify title/author

Counting words

### EARLY NUMERACY (34 ITEMS)

#### Number sense

Rote counting: Counts to a number

One-to-one correspondence 1-10, 11-20

Matches and identifies numerals 1-10, 11-20

Identifies numbers of objects: More/fewer

#### Computation

Computes with manipulatives: Moving objects

Computes with manipulatives: Numerical answer

## Skills checklists

There is an individual assessment for each skill area. Below, you can see each available assessment highlighted in gray, followed by a list of subskills that are covered on it. The numbers in parentheses represent the number of items on each assessment.

### READING

#### Phonological awareness (37)

Rhyming  
Identifying number of syllables (one, two, and three)  
Blending

#### Letter identification (54)

Upper case and lower case

#### Phonemic awareness: Phoneme identification (46)

Initial and final consonants  
Middle vowels

#### Phonemic awareness: Manipulation of sounds (37)

Blending of sounds  
Substitution of sounds: Beginning, middle, and end  
Deletion of sounds

#### Phonics: Matching letters to sounds (33)

Consonant and vowel sounds

#### Syllable types: Vowel, digraphs/diphthongs (23)

Digraphs and diphthongs

#### Syllable types: CVC, CVCe, R-Controlled (16)

CVC and CVCe  
R-Controlled

#### Decoding consonant blends/Digraphs (49)

Initial and final blends  
Initial and final digraphs

#### Decoding: Spelling patterns/Word families (20)

Word families

#### Decoding: Multisyllable words, affixes, Open/C+le (33)

Inflectional endings  
Prefixes and suffixes  
Open and closed/C+le syllables

### MATHEMATICS

#### Number sense to 10—Counting, ordering, place value (35)

Counts to 10: Forward and backward  
One-to-one correspondence  
Identifies position: First, last and 1st-10th  
Compares numbers using words  
Groups objects into 10s

#### Number sense to 10—Identifying/Representing (38)

Names numerals  
Represents numerals correctly  
Composes and decomposes numbers  
Identifies or represents whole, part of, half  
Identifies a penny, a nickel, and a dime  
Identifies name of coin worth 1¢, 5¢, 10¢

#### Number sense to 20—Counting, Place value (27)

Counts by 1s, 2s, and 5s  
Counts backwards  
Counts on from any number by 1s  
One-to-one correspondence  
Groups objects into 10s and 1s

#### Number sense to 20—Ordering (32)

Identifies position: 11th to 20th  
Compares numbers 1-20 using words  
Identifies number 1 more/less than a given number  
Identifies numbers between two given numbers  
Compares the value of one coin to another: penny, nickel, dime

#### Number sense to 20—Identifying/Representing (38)

Identifies numerals and represents numbers  
Composes and decomposes numbers  
Identifies multiple ways of representing numbers  
Identifies or represents  $\frac{1}{4}$ ,  $\frac{2}{4}$ ,  $\frac{3}{4}$ ,  $\frac{4}{4}$

#### Number sense to 100—Place value (22)

Identifies standard form name  
Identifies number of sets given pictures  
Identifies number of sets given numbers  
Reorganizes groups of 10s and 1s

#### Number sense to 100—Counting (23)

Counts on by 1s, 2s, 5s, and 10s  
Counts by 10s to 100

## MATHEMATICS

### Number sense to 100—Ordering (27)

Compares numbers  
Identifies number 1  $>$  and  $<$  a given number  
Identifies numbers between two given numbers  
Orders and compares the value of coins

### Number sense to 100—Identifying/Representing (38)

Identifies numerals and represents numbers  
Composes and decomposes numbers  
Identifies multiple ways of representing numbers  
Fractions: Thirds  
Money

### Number sense to 1000—Place value (23)

Groups objects into 100s, 10s, and 1s  
Identifies the number of 100s, 10s, and 1s in a number  
Identifies the standard form of a number from expanded form  
Identifies multiple ways of showing the same number using place value

### Number sense to 1000—Counting (26)

Counts by 3s  
Counts on by 2s and 5s  
Counts by 10s and 100s from numbers  $<$  100 and  $>$  100  
Counts by 10s from any multiple of 10  
Counts on by 10s from any number

### Number sense to 1000—Identifying/Representing (34)

Identifies numerals and represents numbers  
Composes and decomposes  
Multiple ways of representing numbers  
Fractions: Eighths  
Money

### Number sense to 1000—Ordering (37)

Compares numbers using words and symbols  
Identifies number 10 less/more than a given number  
Identifies number 100 less/more than a given number  
Identifies numbers between two given numbers

### Computation to 10—Problem-solving (12)

Addition: Story problems  
Subtraction: Story problems

### Computation to 10—Using manipulatives (22)

Addition: Computation and story problems—  
Using manipulatives  
Subtraction: Computation and story problems—  
Using manipulatives

### Computation to 10—Using numbers (27)

Addition: Two 1-digit numbers—horizontal and vertical  
Addition: Three 1-digit numbers  
Subtraction: Two 1-digit numbers—horizontal and vertical

### Computation to 20—Problem-solving (12)

Addition: Story problems  
Subtraction: Story problems

### Computation to 20—Using manipulatives (22)

Addition: Computation and story problems—  
using manipulatives  
Subtraction: Computation and story problems—  
using manipulatives

### Computation to 20—Using numbers (27)

Addition: Two 1-digit numbers—horizontal and vertical  
Addition: Three 1-digit numbers  
Subtraction: Two 1-digit numbers—horizontal and vertical

### Computation to 100—w/Regrouping— Using manipulatives (22)

Addition and subtraction: Using manipulatives  
Multiplication: Using manipulatives  
Division: Using manipulatives

### Computation to 100—No regrouping— Using manipulatives (22)

Addition and subtraction: Using manipulatives  
Multiplication: Using manipulatives  
Division: Using manipulatives

### Computation to 100—No regrouping— Problem-solving (27)

Addition: Story problems  
Subtraction: Story problems

### Computation to 100—No regrouping— Using numbers (37)

Addition: 1- or 2-digit numbers—horizontal/vertical  
Addition: Multiple 1- and 2-digit numbers  
Subtraction: Two 1- or 2-digit numbers—  
horizontal/vertical  
Multiplication: Basic facts—horizontal/vertical

## MATHEMATICS

### Computation to 100—w/Regrouping— using numbers (37)

Addition: Two 1- or 2- digit numbers—  
horizontal and vertical

Addition: multiple 1- and 2- digit numbers

Subtraction: Two 1- or 2- digit numbers—  
horizontal and vertical

Multiplication: 2- digit numbers  $<20$  by a  
1-digit number

Division: Basic facts

### Computation to 100—w/Regrouping— Problem-solving/Estimation (39)

Addition: Story problems and estimation

Subtraction: Story problems and estimation

### Computation to 1000—Using manipulatives (22)

Addition, subtraction, and multiplication:  
using manipulatives

Division: using manipulatives (with remainders)

### Computation to 1000—Using numbers (23)

Addition: Sums to 1000

Subtraction: Minuend  $< 1000$

Multiplication: 2- or 3-digit number by a 1- or  
2-digit number

Division: Numbers 100 or less by a 1- or 2-digit number

### Computation to 1000—Problem-solving and estimation (34)

Addition: Story problems and estimation

Subtraction: Story problems and estimation

Multiplication: Story problems

Division: Story problem

## Growth

Growth is a single assessment in each subject: reading and mathematics. There are 43 items in each subject that count toward the student's score, plus several field test items that do not count toward the score. Below, each section highlighted in gray represents an instructional area, followed by a list of instructional subareas, for the "NWEA 2017" assessment version.

### READING K-2 NWEA 2017

#### Phonological awareness

Rhyming, phonological blending, and syllabication  
Phoneme identification, phonemic blending, and manipulation of sounds

#### Phonics

Consonants  
Vowel patterns  
Decoding, sight words, and syllabication

#### Concepts of print

Developmental reading skills and foundations of print

#### Word structure and meaning

Word structure: Affixes, base words, compound words  
Word meaning: Word relationships, context clues, content vocabulary

#### Comprehension

Literary concepts  
Informational concepts

#### Writing

Writing process  
Capitalization, punctuation, and spelling  
Parts of speech and usage

### MATH K-2 NWEA 2017

#### Computation and problem-solving

Whole number operations  
Represent and solve word problems

#### Number sense

Counting, cardinality, and ordinal numbers  
Whole numbers and fractions: Place value concepts and comparisons

#### Measurement and geometry

Measurement, money, and problem-solving with units  
Shapes, attributes, and spatial reasoning

#### Statistics and probability

Data, probability, and predictions

#### Algebra

Patterns, algebraic concepts, and relationships



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