### MAP® INSTRUCTIONAL AREAS

#### NWEA

**LANGUAGE | MATH | READING | SCIENCE**

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Instructional areas and sub-areas are derived from the structure of state academic standards. The general content areas that appear across grade levels in a set of standards become the instructional areas. Instructional areas are further divided into common instructional sub-areas.

Content Specialists align items from the Northwest Evaluation Association™ (NWEA™) item bank to these standards. The Measures of Academic Progress® (MAP®) assessments and associated reports for teachers and students are based upon this alignment and grouping of standards.

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MAP: Language 2-12 NWEA 2017

1. Mechanics
   a. Capitalization
   b. Punctuation
   c. Spelling

2. Parts of Speech
   a. Nouns and Pronouns
   b. Verbs
   c. Adjectives and Adverbs
   d. Prepositions, Conjunctions, and Interjections

3. Usage
   a. Phrases and Clauses
   b. Sentence Structure, Sentence Types, and Meaning
   c. Subject-Verb Agreement

4. Writing Process
   a. Prewriting and Planning; Research
   b. Genres
   c. Organize; Use Transitions
   d. Develop Thesis or Topic, Provide Supporting Details, and Draft
   e. Purpose, Audience, Style, and Tone
MAP: Math 2-5 NWEA 2017

1. Computation and Problem Solving
   a. Whole Number Operations
   b. Fraction and Decimal Operations
   c. Whole Numbers: Represent & Solve Problems
   d. Fractions and Decimals: Represent & Solve Problems

2. Number Sense
   a. Whole Numbers: Place Value, Counting & Rounding
   b. Fractions, Decimals, and Percents: Concepts
   c. Fractions, Decimals, and Percents: Equivalency
   d. Number Theory

3. Geometry
   a. 2-D and 3-D Identification and Classification
   b. Spatial Reasoning, Similarity, Congruence & Scale Factors
   c. Lines, Angles, and Coordinate Geometry

4. Measurement
   a. Length, Weight, Mass, Capacity & Angles
   b. Time, Temperature, and Money
   c. Perimeter, Area, Surface Area, and Volume

5. Data, Statistics, and Probability
   a. Collect, Represent, and Analyze Data
   b. Probability and Sample Spaces

6. Algebraic Concepts
   a. Patterns, Function Tables, and the Coordinate Plane
   b. Expressions and Equations
MAP: Math 6+ NWEA 2017

1. Computation and Problem Solving
   a. Whole Number Operations
   b. Fraction and Decimal Operations
   c. Whole Numbers: Represent & Solve Problems
   d. Fractions and Decimals: Represent & Solve Problems
   e. Integer, Rational, Real, and Complex Numbers
   f. Proportional Reasoning and Percent
   g. Exponents, Radicals, and Scientific Notation

2. Number Sense
   a. Whole Numbers: Place Value, Counting & Rounding
   b. Fractions, Decimals, and Percents: Concepts
   c. Fractions, Decimals, and Percents: Equivalency
   d. Integer, Rational, and Real Numbers: Concepts
   e. Rate, Ratio, Proportion, and Percent
   f. Exponents, Radicals, and Scientific Notation
   g. Number Theory

3. Geometry
   a. 2-D and 3-D Identification and Classification
   b. Spatial Reasoning, Similarity, Congruence & Scale Factors
   c. Lines, Angles, Polygons, and Coordinate Geometry
   d. Transformations
   e. Pythagorean Theorem, Trigonometry & Special Right Triangles
   f. Circles

4. Measurement
   a. Length, Weight, Mass, Capacity & Angles
   b. Time, Temperature, and Money
   c. Perimeter, Area, Surface Area, and Volume

5. Data, Statistics, and Probability
   a. Collect, Represent, and Analyze Data
   b. Probability and Sample Spaces
   c. Population Sampling and Research Design

6. Algebraic Concepts
   a. Patterns, Function Tables, and the Coordinate Plane
   b. Expressions
   c. Equations and Inequalities
   d. System of Equations and Inequalities
   e. Linear Functions, Slope, and Rate of Change
   f. Nonlinear Functions
   g. Definitions, Properties, and Operations of Functions

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MAP: Math Primary Grades NWEA 2017

1. Computation and Problem Solving
   a. Whole Number Operations
   b. Solution Strategies and Verification of Answers
2. Number Sense
   a. Counting, Cardinality, and Ordinal Numbers
   b. Whole Numbers and Fractions: Concepts and Comparisons
3. Measurement and Geometry
   a. Measurement, Money, and Problem Solving
   b. Shapes, Attributes, and Spatial Reasoning
4. Statistics and Probability
   a. Data, Probability, and Predictions
5. Algebra
   a. Patterns, Algebraic Concepts and Relationships

MAP: Reading 2-5 NWEA 2017

   a. Use Letters, Syllables, Affixes and Roots
   b. Use Antonyms, Synonyms, Homographs, and Word Nuances
   c. Use Context Clues
2. Literary Concepts: Main Ideas, Details, and Inferences
   a. Identify Main Ideas or Details, Summarize, and Locate Information
   b. Draw Conclusions, Infer, and Make Predictions
   c. Identify and Analyze Characterization, Plot, and Setting
3. Literary Concepts: Purpose, Structure, and Devices
   a. Analyze Author's Purpose, Style, and Viewpoint
   b. Analyze Structure and Genre
   c. Identify and Interpret Literary Devices and Figurative Language
4. Informational Concepts: Main Ideas, Details, and Inferences
   a. Identify Main Idea or Details, Summarize, and Locate Information
   b. Distinguish Fact and Opinion, Draw Conclusions, Infer, and Make Predictions
   c. Follow Directions, Identify Sequence, and Use Visuals
5. Informational Concepts: Purpose, Structure, and Argument
   a. Analyze Author's Purpose and Viewpoint
   b. Analyze Structure and Genre
   c. Analyze Author's Argument and Credibility

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MAP: Reading 6+ NWEA 2017

   a. Use Letters, Syllables, Affixes and Roots
   b. Use Antonyms, Synonyms, Homographs, and Word Nuances
   c. Use Context Clues

2. Literary Concepts: Main Ideas, Details, and Inferences
   a. Identify Main Ideas or Details, Summarize, and Locate Information
   b. Draw Conclusions, Infer, and Make Predictions
   c. Identify and Analyze Characterization, Plot, and Setting

3. Literary Concepts: Purpose, Structure, and Devices
   a. Analyze Author’s Purpose, Style, and Viewpoint
   b. Analyze Structure and Genre
   c. Identify and Interpret Literary Devices and Figurative Language

4. Informational Concepts: Main Ideas, Details, and Inferences
   a. Identify Main Idea or Details, Summarize, and Locate Information
   b. Distinguish Fact and Opinion, Draw Conclusions, Infer, and Make Predictions
   c. Follow Directions, Identify Sequence, and Use Visuals

5. Informational Concepts: Purpose, Structure, and Argument
   a. Analyze Author’s Purpose and Viewpoint
   b. Analyze Structure and Genre
   c. Analyze Author’s Argument and Credibility

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MAP: Reading Primary Grades NWEA 2017

1. Phonological Awareness
   a. Rhyming, Phonological Blending, and Syllabication
   b. Phoneme Identification, Phonemic Blending, and Manipulation of Sounds
2. Phonics
   a. Consonants
   b. Vowel Patterns
   c. Decoding, Sight Words, and Syllabication
3. Concepts of Print
   a. Developmental Reading Skills and Foundations of Print
4. Word Meaning and Structure
   a. Word Structure – Affixes, Base words, Compound Words
   b. Word Meaning – Word Relationships, Context Clues, Content Vocabulary
5. Comprehension
   c. Literary Concepts
   d. Informational Concepts
6. Writing
   a. Writing Process
   b. Capitalization, Punctuation, and Spelling
   c. Parts of Speech and Usage
MAP: Science 3-5 NWEA 2017

1. Life Sciences
   a. Organisms
   b. Ecosystems
   c. Heredity and Evolution

2. Earth and Space Sciences
   a. Earth in Space
   b. Earth Systems
   c. Human Interactions with Earth

3. Physical Sciences
   a. Matter
   b. Forces
   c. Energy and Waves

MAP: Science 6-8 NWEA 2017

1. Life Sciences
   a. Organisms
   b. Ecosystems
   c. Heredity and Evolution

2. Earth and Space Sciences
   a. Earth in Space
   b. Earth Systems
   c. Human Interactions with Earth

3. Physical Sciences
   a. Matter
   b. Forces
   c. Energy and Waves

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