



www.FamilyLearningAlliance.com

813-384-2190

Sarah.meers@familylearnalliance.com

MAP Growth Report

Student Name
September 4, 2020
7th

Reading

RIT Score	226
RIT Range	223-229
Percentile Rank	76 th
Grade level Equivalent	10 th grade middle of the year
Lexile Range	1091- 1240

SECTION	RIT SCORE	COMPARED TO AVERAGE
Literary Text: Key Ideas and Details	223	High average
Literary Text: Language, Craft, and Structure	224	High average
Informational Text: Key Ideas and Details	226	High average
Informational Text: Language, Craft, and Structure	228	High average
Vocabulary: Acquisition and Use	230	High average



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Reading Learning Goals

Vocabulary: Acquisition and Use

Context Clues and Multiple-Meaning Words

Unknown and Multiple-Meaning Words

Michelle is ready to DEVELOP these skills (221-230):

Determines which meaning of a multiple-meaning word in the 2-5 grade band fits a given context

Determines which meaning of a multiple-meaning word in the 6-8 grade band fits a given context

Determines which meaning of a multiple-meaning word in the 9-12 grade band fits a given context

Identifies words or phrases that provide paragraph-level context for a word

Identifies words or phrases that provide sentence-level context for a word

Uses context in a grade 04 passage to determine the meaning of above grade 04 vocabulary

Uses context in a grade 05 passage to determine the meaning of above grade 05 vocabulary

Uses context in a grade 06 passage to determine the meaning of above grade 06 vocabulary

Uses context in a grade 06 passage to determine the meaning of multiple-meaning vocabulary

Uses context in a grade 07 passage to determine the meaning of above grade 07 vocabulary

Uses context in a grade 07 passage to determine the meaning of multiple-meaning vocabulary

Uses context in a grade 08 passage to determine the meaning of above grade 08 vocabulary



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Uses context in a grade 08 passage to determine the meaning of multiple-meaning vocabulary

Uses context in a grade 09 passage to determine the meaning of above grade 09 vocabulary

Uses context in a grade 10 passage to determine the meaning of above grade 10 vocabulary

Uses context in a grade 12 passage to determine the meaning of above grade 12 vocabulary

Uses context to confirm initial understanding of words or phrases

Uses context to determine the meaning of words in the 6-8 grade band

Uses context to determine the meaning of words in the 9-12 grade band and above

Word Parts, Reference, and Academic Vocabulary

Academic and Content Vocabulary

Michelle is ready to DEVELOP these skills (221-230):

Demonstrates understanding of academic vocabulary

Demonstrates understanding of domain-specific vocabulary

Identifies words or phrases in context that show a cause-effect relationship

Identifies words or phrases in context that show a comparison

Uses context to determine the meaning of academic words or phrases in informational text

Uses context to determine the meaning of domain-specific words or phrases in informational text

Base Words, Affixes

Michelle is ready to DEVELOP these skills (221-230):

Applies knowledge of Greek or Latin roots to determine the meaning of a word in the 6-8 grade band



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Applies knowledge of Greek or Latin roots to determine the meaning of a word in the 9-12 grade band

Identifies the meaning of common Greek and Latin roots

Identifies the meaning of common affixes

Understands how the suffix -ive changes the meaning of a word

Understands the meaning of the combining form alti-

Understands the meaning of the combining form centi-

Understands the meaning of the combining form mon- or mono-

Uses a defined affix as a clue to the meaning of a word

Reference Materials

Michelle is ready to DEVELOP these skills (221-230):

Uses a dictionary definition to confirm initial understanding of word meaning

Uses context and dictionary or thesaurus entries to determine word meaning

Text Features, Visuals

Michelle is ready to DEVELOP these skills (221-230):

Uses context and glossary entries to determine word meaning



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Word Relationships and Nuance

Word Nuances and Shades of Meaning

Michelle is ready to DEVELOP these skills (221-230):

Analyzes nuances in meaning among related words to determine which fits a given context

Understands precise connotations of words with similar meanings

Uses context to determine connotation of words

Word Relationships

Michelle is ready to DEVELOP these skills (221-230):

Identifies antonyms of given words in the 6-8 grade band

Identifies antonyms of given words in the 9-12 grade band

Identifies synonyms of given words in the 6-8 grade band

Identifies synonyms of given words in the 9-12 grade band

Uses antonym relationships in context to determine word meanings

Uses context to identify words that are synonyms in the 6-8 grade band

Uses synonym relationships in context to determine word meanings



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Literary Text: Key Ideas and Details

Draw Conclusions, Infer, Predict

Cause and Effect

Michelle is ready to DEVELOP these skills (22I-230):

Determines the cause of a situation or event in literary text

Inferences, Conclusions

Michelle is ready to DEVELOP these skills (22I-230):

Determines which aspects are left uncertain in literary text

Draws conclusions from literary text

Makes inferences about characters in literary text

Makes inferences about plot in literary text

Makes inferences from poetry

Locating Information

Michelle is ready to DEVELOP these skills (22I-230):

Locates details about characters in literary text

Locates details about plot in literary text

Locates details about setting in literary text



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Supporting Details

Michelle is ready to DEVELOP these skills (221-230):

Determines details that support a prediction in literary text

Determines details that support a stated idea in literary text

Determines details that support a stated idea in poetry

Determines details that support an inference in literary text

Determines details that support an inference in poetry

Summarize; Analyze Themes, Characters, and Events

Characterization

Michelle is ready to DEVELOP these skills (221-230):

Analyzes dialogue to understand characters

Analyzes how setting affects characters

Analyzes the effect of characterization

Compares or contrasts characters

Describes character traits or attributes

Determines details that reveal characters' thoughts, feelings, or actions

Explains character motivation

Infers character feelings or thoughts

Understands character relationships

Understands how characters are developed or changed



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Main or Central Idea, Topic

Michelle is ready to DEVELOP these skills (22I-230):

Determines central idea in literary text

Determines multiple central ideas in one literary text

Plot

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes conflict in literary text

Analyzes how setting contributes to plot

Identifies climax in literary text

Identifies conflict and/or resolution in literary text

Identifies conflict and/or resolution in poetry

Identifies the resolution of conflict in literary text

Setting

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes how setting affects characters

Analyzes how setting contributes to plot

Compares or contrasts setting across literary texts

Draws conclusions about a setting based on a description



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Identifies setting

Summarizing, Paraphrasing

Michelle is ready to DEVELOP these skills (22I-23O):

Distinguishes between major and minor events in literary text

Summarizes a dramatic excerpt

Summarizes literary text

Summarizes poetry

Supporting Details

Michelle is ready to DEVELOP these skills (22I-23O):

Compares and contrasts ideas presented in multiple literary texts

Determines details that support central idea in literary text

Determines details that support the theme in literary text

Theme, Moral, Central Idea

Michelle is ready to DEVELOP these skills (22I-23O):

Analyzes the development of a shared theme in multiple texts

Analyzes the development of theme in literary text

Determines a shared theme in multiple texts



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Determines the moral of a fable

Determines the moral of a story

Determines theme in literary text

Determines theme in poetry

Informational Text: Language, Craft, and Structure

Point of View, Purpose, Perspective, Figurative and Rhetorical Language

Assertions and Claims

Michelle is ready to DEVELOP these skills (22I-23O):

Analyzes inadequately supported claims in argumentative text

Determines author's main argument or claim

Evaluates evidence used to support claims in argumentative text

Evaluates evidence used to support claims in informational text

Identifies evidence that supports a claim in argumentative text

Identifies reasons that support a claim in persuasive text

Recognizes when a claim is supported by evidence

Author's Craft: Figurative Language

Michelle is ready to DEVELOP these skills (22I-23O):

Analyzes the effect of figurative language in informational text



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Analyzes the effect of figurative language in literary nonfiction

Determines the meaning of a key word or phrase in literary nonfiction

Interprets allusion in informational text

Interprets euphemism in literary nonfiction

Interprets idiom in informational text

Interprets metaphor in informational text

Interprets metaphor in literary nonfiction

Interprets paradox in informational text

Author's Craft: Perspective, Attitude

Michelle is ready to DEVELOP these skills (221-230):

Analyzes argumentative text for evidence of bias

Analyzes how author's viewpoint or attitude is conveyed in literary nonfiction

Analyzes informational text for evidence of bias or stereotypes

Determines author's attitude in a letter

Determines author's attitude in informational text

Determines author's attitude in persuasive text

Determines author's viewpoint or attitude in literary nonfiction

Determines similarities or differences in focus of two informational texts on the same topic

Evaluates author's attitude in informational text to make an inference

Recognizes a stereotype in advertising

Understands how an author conveys attitude or perspective in informational text



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Author's Craft: Persuasive and Rhetorical Techniques

Michelle is ready to DEVELOP these skills (221-230):

Analyzes how word choice or rhetorical techniques advance purpose

Analyzes language used to convey messages in advertising

Analyzes persuasive technique used in a speech

Determines general persuasive technique used in advertising

Evaluates author's acknowledgement of counterarguments

Recognizes the use of rhetorical question

Author's Craft: Style, Voice, Tone, Mood

Michelle is ready to DEVELOP these skills (221-230):

Analyzes the effect of word choice on meaning

Analyzes the effect of word choice on tone

Characteristics of Genre: Persuasive, Argumentative

Michelle is ready to DEVELOP these skills (221-230):

Analyzes language used to convey messages in advertising

Analyzes persuasive technique used in a speech

Recognizes a stereotype in advertising



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Inferences, Conclusions

Michelle is ready to DEVELOP these skills (221-230):

Evaluates author's attitude in informational text to make an inference

Point of View

Michelle is ready to DEVELOP these skills (221-230):

Analyzes the effect of author's point of view

Purpose

Michelle is ready to DEVELOP these skills (221-230):

Analyzes how word choice or rhetorical techniques advance purpose

Determines specific purpose of a literary nonfiction passage

Determines specific purpose of a persuasive passage

Determines specific purpose of an informational passage

Supporting Details

Michelle is ready to DEVELOP these skills (221-230):

Determines details that support a claim in literary nonfiction



www.FamilyLearningAlliance.com
813-384-2190
[Sarah.meers@familylearnallince.com](mailto:Sarah.meers@familylearnalliance.com)

Text Structures, Text Features

Author's Craft: Persuasive and Rhetorical Techniques

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes techniques used by an author to illustrate or emphasize ideas

Plot

Michelle is ready to DEVELOP these skills (22I-230):

Identifies problem in literary nonfiction

Text Features, Visuals

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes information in timelines

Evaluates the effectiveness of graphics

Understands the purpose of a sidebar

Understands the purpose of subheadings

Text Structure: Organization

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes how specific paragraphs contribute to meaning in informational text

Analyzes how specific paragraphs contribute to meaning in literary nonfiction

Analyzes how specific sentences contribute to meaning in informational text



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Analyzes how specific sentences contribute to meaning in literary nonfiction

Analyzes the effect of multiple structures in informational text

Analyzes the effect of multiple structures in literary nonfiction text

Analyzes the use of a cause-effect structure in informational text

Analyzes the use of a chronology structure in informational text

Analyzes the use of a compare-contrast structure in informational text

Analyzes the use of a problem-solution structure in informational text

Analyzes the use of a sequential structure in informational text

Describes the organizational structure of a text

Determines specific purpose of a subsection in informational text

Determines specific purpose of a subsection in literary nonfiction

Determines the relationship between parts of a text

Identifies chronology as a structure in informational text

Identifies words or phrases that signal text structure type

Informational Text: Key Ideas and Details

Draw Conclusions, Infer, Predict

Cause and Effect

Michelle is ready to DEVELOP these skills (221-230):

Determines the cause of a situation or event in informational text



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Inferences, Conclusions

Michelle is ready to DEVELOP these skills (22I-230):

Draws conclusions based on multiple informational texts

Draws conclusions from informational text

Draws conclusions from literary nonfiction

Draws conclusions from procedural or technical text

Makes inferences from informational text

Makes inferences from literary nonfiction

Makes predictions from informational text

Makes predictions from literary nonfiction

Locating Information

Michelle is ready to DEVELOP these skills (22I-230):

Locates details in informational text

Locates details in literary nonfiction

Supporting Details

Michelle is ready to DEVELOP these skills (22I-230):

Determines details that support a claim in informational text

Determines details that support a concept presented in informational text

Determines details that support a prediction or conclusion in informational text



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Determines details that support a stated idea in informational text

Determines details that support a stated idea in literary nonfiction

Determines details that support an inference in informational text

Determines details that support an inference in literary nonfiction

Summarize; Analyze Central Ideas, Concepts, and Events

Assertions and Claims

Michelle is ready to DEVELOP these skills (22I-23O):

Compares and contrasts claims in multiple argumentative texts

Compares and contrasts viewpoints in multiple informational texts

Determines how an author organizes claims

Cause and Effect

Michelle is ready to DEVELOP these skills (22I-23O):

Determines the effect of a situation or event in literary nonfiction

Inferences, Conclusions

Michelle is ready to DEVELOP these skills (22I-23O):

Analyzes implicit relationships between ideas in informational text

Analyzes implicit relationships between ideas in literary nonfiction

Compares or contrasts details/ideas described in informational text



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Compares or contrasts details/ideas/individuals described in literary nonfiction

Locating Information

Michelle is ready to DEVELOP these skills (221-230):

Compares and contrasts details in multiple informational texts

Understands explicit relationships between ideas in informational text

Main or Central Idea, Topic

Michelle is ready to DEVELOP these skills (221-230):

Analyzes how details shape main/central idea in literary nonfiction

Analyzes the development of main/central idea in informational text

Analyzes the development of main/central idea in literary nonfiction

Determines main/central idea in a portion of an informational text

Determines main/central idea in informational text

Determines main/central idea in literary nonfiction

Determines main/central idea in persuasive text

Determines multiple main/central ideas in one informational text

Determines multiple main/central ideas in one literary nonfiction text

Identifies a title that reflects main/central idea in informational text



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Summarizing, Paraphrasing

Michelle is ready to DEVELOP these skills (221-230):

Paraphrases text

Summarizes informational text

Summarizes literary nonfiction

Summarizes political speech

Summarizes similarities and/or differences in multiple informational texts

Synthesizes information found in multiple informational texts

Supporting Details

Michelle is ready to DEVELOP these skills (221-230):

Analyzes the technique and details an author uses to develop an event, concept, or characterization in informational text

Determines details that reveal author's thoughts or feelings in literary nonfiction

Determines details that support main/central idea in informational text

Understands the author's characterization of individuals in literary nonfiction

Theme, Moral, Central Idea

Michelle is ready to DEVELOP these skills (221-230):

Determines theme in literary nonfiction



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Literary Text: Language, Craft, and Structure

Figurative, Connotative Meanings; Tone

Author's Craft: Figurative Language

Michelle is ready to DEVELOP these skills (221-230):

Analyzes the effect of figurative language in literary text

Analyzes the effect of oxymoron

Determines the meaning of a figurative phrase in literary text

Identifies idiom

Interprets allusion in literary text

Interprets euphemism in literary text

Interprets extended metaphor in literary text

Interprets extended metaphor in persuasive text

Interprets extended metaphor in poetry

Interprets hyperbole in literary text

Interprets idiom in literary text

Interprets metaphor that makes a complex comparison to describe an abstract idea in literary text

Interprets paradox in literary text

Interprets personification in literary text

Interprets simile in literary text

Interprets simile in poetry



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Interprets symbolism in literary text

Author's Craft: Imagery, Description

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes the effect of imagery in literary text

Author's Craft: Persuasive and Rhetorical Techniques

Michelle is ready to DEVELOP these skills (22I-230):

Interprets extended metaphor in persuasive text

Author's Craft: Style, Voice, Tone, Mood

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes how mood is conveyed in literary text

Analyzes the effect of word choice in literary text

Determines mood in literary text

Determines mood in poetry

Determines tone in literary text

Word Nuances and Shades of Meaning

Michelle is ready to DEVELOP these skills (22I-230):

Uses context to determine connotation of words



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Point of View, Purpose, Perspective

Author's Craft: Perspective, Attitude

Michelle is ready to DEVELOP these skills (22I-230):

Determines speaker's attitude in poetry

Evaluates narrator's attitude in literary text to make an inference

Identifies details that support narrator's viewpoint in literary text

Inferences, Conclusions

Michelle is ready to DEVELOP these skills (22I-230):

Predicts how a story would differ if told from another point of view

Point of View

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes the effect of narrator's point of view

Describes how an ironic point of view affects meaning

Describes the technique an author uses to develop point of view

Predicts how a story would differ if told from another point of view

Recognizes third-person point of view

Understands how point of view differs among characters



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Supporting Details

Michelle is ready to DEVELOP these skills (22I-230):

Identifies details that support narrator's viewpoint in literary text

Text Features, Visuals

Michelle is ready to DEVELOP these skills (22I-230):

Understands the purpose of varied typeface in literary text

Text Structures, Text Features

Author's Craft: Foreshadowing, Flashback

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes use of foreshadowing in literary text

Identifies flashback in literary text

Identifies foreshadowing in literary text

Author's Craft: Style, Voice, Tone, Mood

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes use of suspense in literary text



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Characteristics of Genre: Literary

Michelle is ready to DEVELOP these skills (221-230):

Analyzes use of stage directions

Identifies stanzas in poetry

Understands characteristics of drama

Understands terms that refer to structural elements in drama

Dialogue

Michelle is ready to DEVELOP these skills (221-230):

Analyzes how dialogue advances plot in literary text

Analyzes use of dialogue in literary text

Plot

Michelle is ready to DEVELOP these skills (221-230):

Analyzes climax in literary text

Analyzes how dialogue advances plot in literary text

Analyzes how mood is developed in literary text

Analyzes use of suspense in literary text

Identifies exposition in literary text



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Text Structure: Organization

Michelle is ready to DEVELOP these skills (221-230):

Analyzes how specific paragraphs contribute to meaning in literary text

Analyzes how specific parts of a poem contribute to its meaning

Analyzes how specific sentences contribute to meaning in literary text

Analyzes how the organization or form of a poem affects its meaning



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Math

RIT Score	229
RIT Range	226-232
Percentile Rank	69 th
Grade level equivalent	9 th grade middle of the year

SECTION	RIT SCORE	COMPARED TO AVERAGE
Operations and Algebraic Thinking	223	High average
Number and Operations	227	High Average
Measurement and Data	229	High Average
Geometry	235	High Average



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Math Learning Goals

Operations and Algebraic Thinking

Expressions and Equations

Algebraic Expressions

Michelle is ready to DEVELOP these skills (22I-23O):

Evaluates linear expressions at given values with variables involving positive rational numbers

Evaluates nonlinear expressions at given values with variables involving positive rational numbers

Generates equivalent linear expressions by combining like terms

Generates equivalent linear expressions by using the associative, commutative, and distributive properties, and by combining like terms

Generates equivalent linear expressions by using the associative, commutative, or distributive property

Interprets a quadratic expression within the context of a real-world relationship

Interprets the coefficient and constant in a linear expression within the context of a real-world relationship

Translates between verbal and algebraic expressions

Writes linear expressions in one variable to represent real-world or mathematical contexts



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Exponents

Michelle is ready to DEVELOP these skills (22I-230):

Evaluates numbers with whole-number bases and whole-number exponents

Represents a whole number as a power of a whole number

Uses properties of exponents to simplify numerical expressions involving whole-number exponents only

Fractions: Represent and Solve Word Problems

Michelle is ready to DEVELOP these skills (22I-230):

Represents and solves word problems involving division of whole numbers where the quotient is a fraction

Inequalities

Michelle is ready to DEVELOP these skills (22I-230):

Determines whether a linear equation or inequality is true for a given value of the variable

Solves one-step linear inequalities with positive rational numbers

Solves two-step linear inequalities

Writes a linear inequality in two variables to represent a real-world or mathematical context

Writes a multi-step linear inequality in one variable to represent a real-world or mathematical context

Writes a one-step linear inequality in one variable to represent a real-world or mathematical context

Writes a two-step linear inequality in one variable to represent a real-world or mathematical context



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Linear Functions

Michelle is ready to DEVELOP these skills (221-230):

Compares the rate of change between two proportional relationships represented in different ways

Creates a table to represent a real-world relationship between an independent and a dependent variable in the form $y = x + c$, given a graph

Creates a table to represent a real-world relationship between an independent and a dependent variable, given an equation in the form $y = x + c$

Graphs a linear function of the form $y = mx$ given a simple scenario

Writes an equation in the form $y = mx$ to represent the relationship between real-world quantities given a simple scenario

Writes an equation in the form $y = mx$ to represent the relationship between real-world quantities given a table of values or two ordered pairs

Writes an equation in the form $y = x + c$ to represent the relationship between real-world quantities given a table of values

Writes the equation of a line in the form $y = mx$ given a table of values or two ordered pairs

Number Sentences/Equations/Equivalence

Michelle is ready to DEVELOP these skills (221-230):

Determines the number of solutions of a linear equation in one variable given the corresponding equation in the form $x=a$, $x=x$, or $a=b$

Determines whether a linear equation or inequality is true for a given value of the variable

Evaluates formulas or linear equations at given values for the variables

Solves absolute value equations



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Solves cubic equations by taking cube roots

Solves multi-step linear equations with positive and negative rational numbers

Solves one-step linear equations with negative rational numbers

Solves one-step linear equations with positive rational numbers

Solves quadratic equations in one variable using factoring, the quadratic formula, or other appropriate method

Solves quadratic equations in the form $x^2 = c$

Solves two-step linear equations with negative rational numbers

Solves two-step linear equations with positive rational numbers

Writes a one-step linear equation in one variable to represent a real-world or mathematical context

Writes and solves a multi-step quadratic equation in one variable involving a real-world or mathematical context

Writes and solves a two-step linear equation in one variable involving a real-world or mathematical context

Numerical Expressions

Michelle is ready to DEVELOP these skills (221-230):

Applies the order of operations, with grouping symbols and excluding exponents, to simplify numerical expressions involving both positive and negative rational numbers

Applies the order of operations, with grouping symbols and excluding exponents, to simplify numerical expressions involving positive rational numbers

Applies the order of operations, with grouping symbols and whole-number exponents, to simplify numerical expressions involving both positive and negative rational numbers

Applies the order of operations, with grouping symbols and with whole-number exponents, to simplify numerical expressions consisting of positive rational numbers



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Applies the order of operations, without grouping symbols and with whole-number exponents, to simplify numerical expressions consisting of positive rational numbers

Applies the order of operations, without grouping symbols or whole-number exponents, to simplify numerical expressions involving both positive and negative rational numbers

Evaluates numerical expressions involving multiple operations with whole numbers and parentheses

Represents descriptions of calculations with numerical expressions or equations that include parentheses

Uses properties of exponents to simplify numerical expressions involving whole-number exponents only

Polynomial Functions

Michelle is ready to DEVELOP these skills (22I-230):

Identifies the zeros of a polynomial function from a graph

Properties and Relationships of Operations

Michelle is ready to DEVELOP these skills (22I-230):

Applies the distributive property of multiplication to whole numbers

Radicals

Michelle is ready to DEVELOP these skills (22I-230):

Evaluates the square root of a perfect square



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Rate of Change/Slope

Michelle is ready to DEVELOP these skills (22I-230):

Compares the rate of change between two proportional relationships represented in different ways

Rational Numbers: Solve Real-World and Mathematical Problems

Michelle is ready to DEVELOP these skills (22I-230):

Solves real-world problems using appropriate problem-solving strategies and evaluates the reasonableness of the solutions

Scientific Notation

Michelle is ready to DEVELOP these skills (22I-230):

Converts a number from scientific notation to standard form

Converts a number from standard form to scientific notation

System of Equations/Inequalities

Michelle is ready to DEVELOP these skills (22I-230):

Solves a system of linear equations graphically

Writes a system of linear equations to represent a real-world or mathematical context

Writes and solves a system of linear equations involving a real-world or mathematical context



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Whole Numbers: Represent and Solve Word Problems

Michelle is ready to DEVELOP these skills (221-230):

Represents and solves word problems involving division of whole numbers where the quotient is a fraction

Use Functions to Model Relationships

Exponential and Logarithmic Functions

Michelle is ready to DEVELOP these skills (221-230):

Interprets the meaning of the y-intercept of a graph within the context of a real-world exponential relationship

Linear Functions

Michelle is ready to DEVELOP these skills (221-230):

Calculates the rate of change from a graph representing a real-world linear relationship

Calculates the rate of change from a table or description of a real-world linear relationship

Compares the rate of change and intercepts between two nonproportional linear functions represented in different ways

Graphs a linear function of the form $y = mx$ given a simple scenario

Interprets the meaning of the slope of a graph in a real-world linear relationship

Interprets the meaning of the x-intercept of a graph within the context of a real-world linear relationship

Interprets the meaning of the y-intercept of a graph within the context of a real-world linear relationship



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Translates between the graph of a linear function and a verbal description of the real-world relationship

Translates between the graph of a piecewise linear function and a verbal description of the real-world relationship

Writes an equation in the form $y = mx + b$ to represent the relationship between real-world quantities given the slope and y-intercept

Patterns/Sequences/Series

Michelle is ready to DEVELOP these skills (22I-23O):

Determines the value of a term in a geometric sequence defined by a list

Determines the value of a term in a geometric sequence given a contextual situation

Determines the value of a term in an arithmetic sequence given a contextual situation

Writes an expression or formula for the n th term of an arithmetic sequence given a contextual situation

Piecewise/Absolute Value Functions

Michelle is ready to DEVELOP these skills (22I-23O):

Calculates the rate of change of a piecewise function over a given interval

Translates between the graph of a piecewise linear function and a verbal description of the real-world relationship



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Quadratic Functions

Michelle is ready to DEVELOP these skills (22I-230):

Describes the effects that changes in the constant terms have on the graphs of quadratic functions

Writes a quadratic function given a table of values

Rate of Change/Slope

Michelle is ready to DEVELOP these skills (22I-230):

Calculates the rate of change from a graph representing a real-world linear relationship

Calculates the rate of change from a table or description of a real-world linear relationship

Calculates the rate of change of a piecewise function over a given interval

Compares the rate of change and intercepts between two nonproportional linear functions represented in different ways

Interprets the meaning of the slope of a graph in a real-world linear relationship

Geometry

Congruence, Similarity, Right Triangles, & Trig

Congruence

Michelle is ready to DEVELOP these skills (22I-230):

Describes a single transformation that shows two shapes are congruent, without the coordinate plane

Determines measures of corresponding angles in congruent figures



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Identifies the transformation that shows two triangles are congruent by SSS, SAS, or ASA

Understands that rigid transformations preserve congruency

Geometric Proof/Logic/Inductive and Deductive Reasoning

Michelle is ready to DEVELOP these skills (22I-23O):

Determines the conditions necessary to prove two triangles are similar

Points, Lines, Segments, Rays, and Angles

Michelle is ready to DEVELOP these skills (22I-23O):

Recognizes precise definitions of parallel and perpendicular lines

Relationships involving Lines, Angles, and Polygons

Michelle is ready to DEVELOP these skills (22I-23O):

Applies properties of isosceles triangles to determine the measure of an unknown angle

Applies the Triangle Angle-Sum Theorem to determine the measure of an unknown angle

Recognizes that the sum of the interior angles of a triangle is 180 degrees

Solves problems involving parallel lines cut by a transversal

Similarity

Michelle is ready to DEVELOP these skills (22I-23O):

Applies properties of similar triangles to solve real-world problems involving indirect measurements



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Determines lengths of corresponding sides in similar figures

Determines the conditions necessary to prove two triangles are similar

Spatial Concepts and Symmetry

Michelle is ready to DEVELOP these skills (22I-23O):

Determines the number of lines of symmetry in 2-D figures

Transformations

Michelle is ready to DEVELOP these skills (22I-23O):

Describes a single transformation that shows two shapes are congruent, without the coordinate plane

Describes a single transformation that will map one figure onto another on the coordinate plane

Determines the coordinates of the vertices of a polygon after a dilation or a series of dilations, with center at the origin

Determines the coordinates of the vertices of a polygon after a translation or a series of translations

Determines the image of a polygon on a coordinate plane after a reflection or a series of reflections

Determines the image of a polygon on a coordinate plane after a rotation or a series of rotations

Determines the measures of corresponding sides and angles in an image and pre-image of a figure after a rigid transformation

Identifies the transformation that shows two triangles are congruent by SSS, SAS, or ASA

Understands that rigid transformations preserve congruency



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Geometric Measurement and Relationships

Angle Measurement

Michelle is ready to DEVELOP these skills (22I-230):

Calculates unknown angle measures using the additive property of angles

Identifies/estimates angle measures

Knows the definition of an angle

Measures non-right angles using a protractor

Understands what the measure of an angle represents

Area

Michelle is ready to DEVELOP these skills (22I-230):

Describes the effect on area when dimensions of a rectangle are changed

Describes the effect on area when dimensions of a triangle are changed

Determines side lengths given the area of rectangles

Determines the area of parallelograms, formula not provided

Determines the area of rectangles with fractional sides, formula not provided

Determines the area of rectangles with whole-number sides, formula not provided

Solves problems involving areas of figures composed of polygons within a real-world or mathematical context

Solves problems involving areas of rectangles within a real-world or mathematical context



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Circles

Michelle is ready to DEVELOP these skills (22I-23O):

Recognizes the relationship between tangent lines and radii

Coordinate Geometry

Michelle is ready to DEVELOP these skills (22I-23O):

Determines the coordinates of missing vertices of geometric figures in the first quadrant given the coordinates of the other vertices

Determines the coordinates of one endpoint of a line segment given the coordinates of the midpoint and the other endpoint

Identification and Classification of 2-D Shapes

Michelle is ready to DEVELOP these skills (22I-23O):

Identifies and names nonbasic shapes, such as trapezoids, hexagons, etc.

Identifies and names special triangles, such as acute, right, scalene, etc., given pictures

Identifies properties of a 2-D shape, such as right angles, parallel sides, etc., given pictures

Knows definitions of special triangles, such as acute, right, scalene, etc.

Understands the relationships among categories of shapes



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Length

Michelle is ready to DEVELOP these skills (22I-23O):

Knows relative sizes of metric units of length

Understands measurement involving rulers

Perimeter/Circumference

Michelle is ready to DEVELOP these skills (22I-23O):

Determines side lengths given the perimeter of rectangles

Determines the circumference of circles, formula not provided

Determines the circumference of circles, given the formula

Determines the perimeter of basic polygons in which not all sides are labeled

Determines the radius or diameter given the circumference of a circle

Recognizes situations which describe perimeter

Solves problems involving perimeters of rectangles within a real-world or mathematical context

Points, Lines, Segments, Rays, and Angles

Michelle is ready to DEVELOP these skills (22I-23O):

Identifies perpendicular lines involving real-world objects

Knows the definition of an angle

Understands what the measure of an angle represents



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Rates/Ratios/Proportions/Percents

Michelle is ready to DEVELOP these skills (22I-230):

Applies the concept of density to solve problems involving area and volume

Relationships involving Lines, Angles, and Polygons

Michelle is ready to DEVELOP these skills (22I-230):

Calculates unknown angle measures using the properties of complementary, supplementary, and vertical angles

Similarity

Michelle is ready to DEVELOP these skills (22I-230):

Applies scale factors to solve problems involving scale drawings of geometric figures

Applies scale factors to solve problems involving scale drawings, maps, and models

Determines lengths of corresponding sides in similar figures

Determines scale factors in problems involving scale drawings of geometric figures

Spatial Concepts and Symmetry

Michelle is ready to DEVELOP these skills (22I-230):

Identifies and creates nets for prisms

Identifies the cross-sections of 3-D shapes



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Time

Michelle is ready to DEVELOP these skills (22I-230):

Determines elapsed time across both minutes and hours using clocks

Solves elapsed-time word problems involving counting backward by both hours and minutes

Solves elapsed-time word problems involving counting forward by both hours and minutes

Volume

Michelle is ready to DEVELOP these skills (22I-230):

Determines the length, width, or height given the volume of a rectangular prism and two of the dimensions

Determines the volume of figures by counting unit cubes

Determines the volume of pyramids, given the formula

Determines the volume of rectangular prisms, formula not provided

Determines the volume of rectangular prisms, given the formula

Represents the volume of rectangular prisms composed of unit cubes, using repeated addition expressions or equations

Solves problems involving volumes of rectangular prisms within a real-world or mathematical context



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Statistics and Probability

Interpreting Categorical and Quantitative Data

Bivariate Data

Michelle is ready to DEVELOP these skills (22I-230):

Analyzes linear trends in scatter plots to make predictions

Constructs scatter plots of bivariate data

Constructs two-way frequency tables

Describes and interprets data in a scatter plot

Describes and interprets outliers and clusters in a scatter plot

Describes the correlation or association between two variables, including the direction and strength of linear and nonlinear relationships

Determines relative frequencies in a two-way frequency table

Distinguishes between linear and nonlinear relationships in scatter plots

Interprets the meaning of the slope or y-intercept of a line of best fit or regression line

Understands the relationship between the value of the correlation coefficient and the strength and direction of a linear relationship

Uses a given equation of a line of best fit to make predictions

Data Analysis

Michelle is ready to DEVELOP these skills (22I-230):

Compares the variability of related data sets from random samples presented in box plots

Determines a valid conclusion based on data presented in a box plot



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Identifies outliers in a data set

Identifies the median, quartiles, extreme values, and outliers from a box plot

Reads and interprets data from a histogram

Solves multi-step problems using data from bar graphs with multi-unit scales

Solves word problems using data from line or dot plots with fractional scales

Data Representation

Michelle is ready to DEVELOP these skills (22I-23O):

Constructs scatter plots of bivariate data

Constructs two-way frequency tables

Represents data in histograms

Measures of Center and Spread (Variability)

Michelle is ready to DEVELOP these skills (22I-23O):

Compares the variability of related data sets from random samples presented in box plots

Determines the mean of a data set

Determines the median of a data set that is not ordered

Determines the median of a data set that is ordered

Determines the range of a data set

Identifies the median, quartiles, extreme values, and outliers from a box plot

Interprets the median in the context of a data set



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Populations/Random Processes

Michelle is ready to DEVELOP these skills (22I-230):

Determines a valid conclusion based on data presented in a box plot

Using Sampling and Probability to Make Decisions

Data Analysis

Michelle is ready to DEVELOP these skills (22I-230):

Represents the intersection, union, and complement of sets using set notation

Populations/Random Processes

Michelle is ready to DEVELOP these skills (22I-230):

Describes a simulation to model a real-world random process

Identifies a research design as a sample survey, an experiment, or an observational study

Identifies a sampling method that produces the most representative sample

Identifies an appropriate research design, including surveys, experiments and observational studies, to answer a question

Identifies valid inferences given a population sample

Writes and solves proportions to make inferences about populations



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Probability

Michelle is ready to DEVELOP these skills (22I-23O):

Determines experimental probabilities of simple events

Determines theoretical probabilities of simple events

Distinguishes between independent and dependent events in situations

Makes predictions based on experimental probabilities of simple events

Makes predictions based on theoretical probabilities of simple events

Orders events from least likely to most likely given probabilities

Understands independence as it relates to previous outcomes

Sample Spaces

Michelle is ready to DEVELOP these skills (22I-23O):

Determines the sample space for more than two compound events using organized lists, tree diagrams, or charts

Determines the sample space for two compound events using organized lists, tree diagrams, or charts

Uses permutations and combinations to determine the number of possible outcomes

Uses the Fundamental Counting Principle to determine the number of possible outcomes



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

The Real and Complex Number Systems

Extend and Use Properties

Coordinate Geometry

Michelle is ready to DEVELOP these skills (23I-240):

Determines the distance between two points with the same first or second coordinate

Determines the quadrant for a given ordered pair

Plots points in all four quadrants of a coordinate plane

Decimals: Compare/Order

Michelle is ready to DEVELOP these skills (23I-240):

Compares decimals to the thousandths, with a different number of digits after the decimal point, using symbols

Orders decimals to the thousandths, with a different number of digits after the decimal point

Exponents

Michelle is ready to DEVELOP these skills (23I-240):

Represents the value of digits in whole numbers using powers of 10 in exponential form

Uses properties of exponents to simplify algebraic expressions involving whole-number exponents



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Fractions: Equivalence

Michelle is ready to DEVELOP these skills (23I-24O):

Writes equivalent fractions for given points on a number line

Fractions: Represent/Model

Michelle is ready to DEVELOP these skills (23I-24O):

Locates improper fractions on a number line

Locates mixed numbers on a number line

Understands fractions as the division of the numerator by the denominator

Rational Numbers: Compare/Order

Michelle is ready to DEVELOP these skills (23I-24O):

Compares integers given the meaning of zero within a real-world situation

Compares integers that represent quantities in a real-world context

Orders negative rational numbers represented in multiple forms

Orders positive and negative rational numbers

Orders positive rational numbers that represent quantities in a real-world context

Writes or interprets verbal comparative statements for rational numbers within a real-world context



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Rational Numbers: Represent/Model

Michelle is ready to DEVELOP these skills (231-240):

Locates negative rational numbers on a number line

Locates the opposite of a negative rational number on a number line

Real/Complex Numbers: Concepts/Properties

Michelle is ready to DEVELOP these skills (231-240):

Approximates the value of an irrational number

Compares and orders real numbers

Determines whether a real number is rational or irrational

Whole Numbers: Place Value

Michelle is ready to DEVELOP these skills (231-240):

Represents the value of digits in whole numbers using powers of 10 in exponential form

Understands that the same digit, moved one place to the left, now represents 10 times the value

Understands that the same digit, moved one place to the right, now represents $1/10$ the value



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Perform Operations

Decimals: Multiplication/Division

Michelle is ready to DEVELOP these skills (231-240):

Divides decimals by decimals

Divides decimals by whole numbers

Multiplies decimals by decimals

Multiplies decimals by multi-digit whole numbers

Multiplies or divides decimals by 10, 100, or 1,000

Decimals: Represent and Solve Word Problems

Michelle is ready to DEVELOP these skills (231-240):

Solves multi-step word problems involving the four operations and decimals, including contexts involving money

Solves one-step word problems involving multiplication of multi-digit whole numbers and decimals to the hundredths, including contexts involving money

Fractions: Addition/Subtraction

Michelle is ready to DEVELOP these skills (231-240):

Adds and subtracts fractions with denominators of 10 or 100

Adds and subtracts fractions with unlike denominators

Adds and subtracts whole numbers, fractions, and/or mixed numbers with like denominators, with regrouping



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Adds and subtracts whole numbers, fractions, and/or mixed numbers with unlike denominators, no regrouping

Adds and subtracts whole numbers, fractions, and/or mixed numbers with unlike denominators, with regrouping

Fractions: Multiplication/Division

Michelle is ready to DEVELOP these skills (231-240):

Divides fractions by fractions, results in simplest form

Divides fractions by mixed numbers, results in simplest form

Divides fractions by whole numbers, results in simplest form

Divides mixed numbers by fractions, results in simplest form

Divides mixed numbers by whole numbers, results in simplest form

Divides whole numbers by fractions, results in simplest form

Multiplies mixed numbers by whole numbers, results in simplest form

Understands that dividing by a fraction is the same as multiplying by its reciprocal

Understands that multiplying whole numbers and fractions involves multiplying the whole number and the numerator, then dividing by the denominator

Understands the effect of multiplying whole numbers by fractions greater than 1

Understands the effect of multiplying whole numbers by fractions less than 1



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Fractions: Represent and Solve Word Problems

Michelle is ready to DEVELOP these skills (231-240):

Solves multi-step word problems involving addition and subtraction of fractions with unlike denominators

Solves multi-step word problems involving whole numbers, fractions and/or mixed numbers

Solves one-step word problems involving addition and subtraction of fractions with unlike denominators

Solves one-step word problems involving addition and subtraction of mixed numbers with like denominators

Solves one-step word problems involving addition and subtraction of mixed numbers with unlike denominators

Solves one-step word problems involving division of fractions or mixed numbers

Solves one-step word problems involving division of whole numbers by unit fractions

Solves one-step word problems involving multiplication of fractions or mixed numbers

Solves one-step word problems involving multiplication of whole numbers and either fractions or mixed numbers

Solves one-step word problems involving division of fractions or mixed numbers by whole numbers

Integers: Computation

Michelle is ready to DEVELOP these skills (231-240):

Represents addition and subtraction of integers on a number line

Understands subtracting an integer is the same as adding its opposite



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Numerical Expressions

Michelle is ready to DEVELOP these skills (23I-240):

Represents real-world problems involving the addition and subtraction of integers with numerical expressions

Rewrites the sum of two whole numbers as a product of a common factor and the sum of two whole numbers

Properties and Relationships of Operations

Michelle is ready to DEVELOP these skills (23I-240):

Locates the additive inverse of a number on a number line

Understands that dividing by a fraction is the same as multiplying by its reciprocal

Understands that multiplying whole numbers and fractions involves multiplying the whole number and the numerator, then dividing by the denominator

Understands that the product of a negative number and a positive number is negative

Understands the additive inverse property

Understands the effect of multiplying whole numbers by fractions less than 1

Rational Numbers: Computation

Michelle is ready to DEVELOP these skills (23I-240):

Adds and subtracts rational numbers, including combinations of positive or negative fractions, decimals, and integers

Divides rational numbers, including combinations of positive or negative fractions, decimals, and integers



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Multiplies rational numbers, including combinations of positive or negative fractions, decimals, and integers

Rational Numbers: Equivalence

Michelle is ready to DEVELOP these skills (23I-24O):

Converts between decimals and fractions with a denominator of 3

Converts between decimals and fractions with a denominator of 8

Converts between decimals and fractions with denominators of 10 or 100

Converts fractions to decimals using long division

Understands the relationship between the sign of a quotient and the sign of the dividend and divisor

Rational Numbers: Represent/Model

Michelle is ready to DEVELOP these skills (23I-24O):

Identifies values that are a given distance from a point on a number line

Rational Numbers: Solve Real-World and Mathematical Problems

Michelle is ready to DEVELOP these skills (23I-24O):

Solves real-world problems involving the addition and subtraction of integers

Real/Complex Numbers: Computation

Michelle is ready to DEVELOP these skills (23I-24O):



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Adds and subtracts complex numbers

Real/Complex Numbers: Concepts/Properties

Michelle is ready to DEVELOP these skills (23I-24O):

Determines whether the decimal expansion of a fraction repeats or terminates

Whole Numbers: Concepts/Properties

Michelle is ready to DEVELOP these skills (23I-24O):

Determines common factors

Determines common multiples

Determines least common multiples

Whole Numbers: Represent and Solve Word Problems

Michelle is ready to DEVELOP these skills (23I-24O):

Solves multi-step multiplication and division word problems with whole numbers

Solves multi-step word problems involving the four operations with whole numbers



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Ratios and Proportional Relationships

Capacity

Michelle is ready to DEVELOP these skills (231-240):

Completes complex conversions of customary units of capacity involving fractions, decimals, or more than two units

Solves multi-step capacity word problems involving decimals or fractions and conversion of metric units

Conversion of Units

Michelle is ready to DEVELOP these skills (231-240):

Completes complex conversions of customary units of capacity involving fractions, decimals, or more than two units

Completes complex conversions of customary units of length involving fractions, decimals, or more than two units

Completes complex conversions of customary units of weight involving fractions, decimals, or more than two units

Converts unit rates to solve real-world problems

Converts units of length between the customary and the metric systems

Converts units of speed

Solves multi-step capacity word problems involving decimals or fractions and conversion of metric units

Solves multi-step length word problems involving whole numbers and conversion of customary units

Solves multi-step weight word problems involving whole numbers and conversion of customary units



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnignallince.com

Length

Michelle is ready to DEVELOP these skills (231-240):

Completes complex conversions of customary units of length involving fractions, decimals, or more than two units

Converts units of length between the customary and the metric systems

Solves multi-step length word problems involving whole numbers and conversion of customary units

Rates/Ratios/Proportions/Percents

Michelle is ready to DEVELOP these skills (231-240):

Calculates percents of numbers

Calculates the percent one number is of another number

Calculates the percent one number is of another number for percents greater than 100%

Calculates the whole when given a part and the percent

Compares unit rates within a real-world context

Converts between decimals and percents less than 100%

Converts between percents and ratios expressed verbally or in the form a:b

Converts unit rates to solve real-world problems

Determines equivalent ratios

Determines the whole in a real-world percent problem given the part and the percent

Identifies the part-to-whole ratio between two quantities



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Identifies the part-to-part ratio between two quantities

Solves multi-step percent problems within a real-world or mathematical context

Solves one-step percent problems within a real-world or mathematical context

Solves real-world and mathematical problems using ratios or proportional reasoning

Solves real-world problems involving percent or fractional increase

Uses a given unit rate to solve a multi-step real-world problem

Uses a given unit rate to solve a one-step real-world problem

Uses ratios of decimals to calculate unit rates

Uses ratios of fractions to calculate unit rates

Uses ratios of whole numbers and decimals to calculate unit rates

Uses ratios of whole numbers to calculate unit rates

Uses tables to represent real-world relationships described by a given ratio

Uses two given unit rates to solve a multi-step real-world problem

Writes the same ratio in different forms, including verbally, as a fraction, and in the form $a:b$

Rational Numbers: Equivalence

Michelle is ready to DEVELOP these skills (231-240):

Converts between decimals and percents less than 100%

Converts between percents and ratios expressed verbally or in the form $a:b$



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Rational Numbers: Solve Real-World and Mathematical Problems

Michelle is ready to DEVELOP these skills (231-240):

Determines the whole in a real-world percent problem given the part and the percent

Solves multi-step percent problems within a real-world or mathematical context

Solves one-step percent problems within a real-world or mathematical context

Solves real-world problems involving percent or fractional increase

Weight/Mass

Michelle is ready to DEVELOP these skills (231-240):

Completes complex conversions of customary units of weight involving fractions, decimals, or more than two units

Solves multi-step weight word problems involving whole numbers and conversion of customary units

Definitions

RIT Score	<p>MAP Growth uses a scale called RIT to measure student achievement and growth. RIT stands for Rasch UnIT and is a measurement scale developed to simplify the interpretation of test scores. It is an equal-interval scale, like feet and inches on a ruler, so scores can be added together to calculate accurate class or school averages. RIT scores range from about 100–300. Students typically start at the 180–200 level in the third grade and progress to the 220–260 level by high school. RIT scores make it possible to follow a student’s educational growth from year to year.</p>
RIT Range	<p>Percentiles are used to compare one student’s performance to that of the norm group. Percentile means the student scored as well as, or better than, that percent of students taking the test in their grade. There is about a 68% chance that a student’s percentile ranking will fall within this range if the student tested again relatively soon.</p>
Percentile Rank	<p>This number indicates the percentage of students in the NWEA norm group for a grade that a student’s score equaled or exceeded. The percentile rank is a normative statistic that indicates how well a student performed in comparison to the students in the norm group. A student’s percentile rank indicates that the student scored as well as, or better than, the percent of students in the norm group. In other words, a student with a percentile rank</p>



www.FamilyLearningAlliance.com
813-384-2190
Sarah.meers@familylearnalliance.com

Grade level equivalent	Using student achievement norms based on the bell curve, the RIT score can be used to tell you the grade level equivalence of your child's score.
Lexile Range	A score that can be used to determine reading material that is the appropriate level for your child. You can find more information at https://lexile.com
Learning Goals	Learning goals are based off of NWEA's learning continuum. These goals define the skills and concepts that are in your child's zone of proximal development and may be helpful in planning current instruction.