

RIT TO CONCEPTS

for the Web-Based MAP[®] system

Use the following word lists as you teach the concepts that students are ready to learn. The words within each RIT band represent the difficulty level that MAP measures, regardless of your state standard. For students who scored within a given range, you can enhance their instruction by reinforcing these words.

For English language learners, these word lists can prepare students before the MAP assessment, because the words and related concepts are likely to appear in the test. (However, because tests are adaptive, the words are not guaranteed to appear.)

These words lists are not comprehensive. Use them in conjunction with other vocabulary lists associated with your curriculum.

Relation to Learning Continuum

These words and concepts correspond directly to the MAP Learning Continuum report. If you want more context, especially how these topics evolve across the RIT bands, please refer to the Test View within the Learning Continuum. You'll find learning statements that can better suggest when a topic might be a focus for instruction.

Subjects

- [Mathematics Concepts by RIT on page 2](#)
- [Reading Concepts by RIT on page 9](#)

Mathematics Concepts by RIT

NORMS: The grade-levels shown in each RIT band are based on the 2015 NWEA Norms Study. They are only an approximation and overall guideline for the difficulty level.

MATHEMATICS	
RIT BAND + NORMS	CONCEPTS TO INTRODUCE
131-140	<p>Whole Numbers—Counting and Cardinality: number</p>
141-150 Grade K, beginning to mid-year	<p>Whole Numbers—Addition/ Subtraction: compare quantities sum</p> <hr/> <p>Length: length height width</p> <hr/> <p>Identification and Classification of 2-D Shapes: circles rectangles triangles measure squares</p> <hr/> <p>Additional Learning Continuum topic: Data Analysis</p>
151-160 Grade K, end of year	<p>Concepts building on topics from prior RIT bands: add octagon rhombus category parallelogram subtract equal parts pentagon trapezoids hexagon</p> <hr/> <p>Number Sentences/Equations/Equivalence: difference parts of addition and subtraction problems</p> <hr/> <p>Time: hour</p> <hr/> <p>Spatial Concepts and Symmetry: location words</p>

MATHEMATICS

RIT BAND

+ NORMS

CONCEPTS TO INTRODUCE**Whole Numbers—Compare / Order:**

backwards
count
order

Identification and Classification of 3-D Shapes:

cones	cubes	spheres
corners	cylinders	

Additional Learning Continuum topics:

- Fractions: Equivalence
 - Fractions: Represent/Model
 - Whole Numbers: Multiplication/Division
 - Whole Numbers: Represent and Solve Word Problems
 - Whole Numbers: Place Value
-

161-170

Grade 1,
beginning to
mid-year

Concepts building on topics from prior RIT bands:

digit	hundreds	start, change, end
fourths	ones	tens
halves	open or closed shape	thirds

Money:

coins
dollar

Problem Solving with Units:

foot	mile	yard
inch	ruler	yardstick

Data Representation:

bar graph	pictograph
measurement scale	scale

Additional Learning Continuum topics:

- Decimals—Addition/Subtraction
 - Angle Measurement
 - Area
-

MATHEMATICS

RIT BAND**CONCEPTS TO INTRODUCE**

+ NORMS

171-180**Concepts building on topics from prior RIT bands:**Grade 1,
mid to end of yearGrade 2,
beginning of year

denominator	hundred thousands	quarter hour
edges	line of symmetry	second
even	minute	ten thousands
faces	model	thousands
fraction	numerator	vertices
half-past	odd	

Fractions—Compare/Order:

equivalent

Numerical Expressions:

expanded form
 parentheses in expressions
 unknowns in number sentences

Whole Numbers;**Decimals—Rounding/Estimation:**

estimation
 rounds

Additional Learning Continuum topics:

- Conversion of Units
- Coordinate Geometry
- Decimals—Represent and Solve Word Problems
- Perimeter/Circumference
- Probability
- Properties and Relationships of Operations
- Whole Numbers—Concepts/Properties

181-190**Concepts building on topics from prior RIT bands:**Grade 2,
middle of year

a.m. / p.m.	equations	scatter plot
chart	hundred millions	table
coordinates	million	ten millions
degree	multiples	

Fractions: Addition/Subtraction:

mixed number

Angle Measurement;**Points, Lines, Segments, Rays, and Angles:**

acute angle	parallel	right angles
obtuse angle	protractor	

MATHEMATICS

RIT BAND

+ NORMS

CONCEPTS TO INTRODUCE**Additional Learning Continuum topics:**

- Decimals—Multiplication/Division
 - Bivariate Data
 - Rates/Ratios/Proportions/Percents
-

191-200Grade 2,
end of yearGrade 3,
beginning to
mid-year**Concepts building on topics from prior RIT bands:**

decimals	likelihood (of event)	perimeter
dividend	line segments	points
divisor	lines	prime
dot plot	positive	rays
estimate	proportion	solution
equilateral	negative	unit rate
isosceles	number line	variable

Fractions—Represent and Solve Word Problems:

composite	factor	simplest form
converts		

Capacity;**Weight/Mass:**

capacity	liter	pounds
cups	ounces	quarts
gallons	pints	

Additional Learning Continuum topics:

- | | |
|--|-------------------------|
| - Decimals—Multiplication/Division | - Algebraic Expressions |
| - Fractions—Multiplication/Division | - Linear Functions |
| - Patterns/Sequences/Series | - Sample Spaces |
| - Rational Numbers—Equivalence and Represent/Model | |
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MATHEMATICS

RIT BAND**CONCEPTS TO INTRODUCE**

+ NORMS

201-210Grade 3,
end of yearGrade 4,
beginning to
mid-year**Concepts building on topics from prior RIT bands:**

associative property	kilometer	mode
centimeter	liter	nets
commutative property	mean	outliers
diagonal	median	quadrants
distance	meter	scalene
distributive property	milliliter	y-intercept
inverse	millimeter	

Decimals—Compare/Order;**Decimals—Represent/Model:**

hundredths
tenths
thousandths

Volume:

prism
pyramid
unit cube

Similarity:

scale factor

Rational Numbers—Solve Real-World and Mathematical Problems:

rate
simplify

Additional Learning Continuum topics:

- | | |
|---|--------------------------------|
| - Congruence | - Populations/Random Processes |
| - Measures of Center and Spread (Variability) | - Transformations |
-

MATHEMATICS

RIT BAND**CONCEPTS TO INTRODUCE**

+ NORMS

211-220**Concepts building on topics from prior RIT bands:**

Grade 4, end of year	box plot	outliers	reflection
Grade 5, beginning to mid-year	combine terms	perpendicular	rotation
Grade 6, beginning of year	complementary	quartiles	rule for patterns or sequences
	diameter	radius	supplementary
	improper fractions	range	translation
	joint probability	reasonableness	vertical angle
	mixed number		

System of Equations/Inequalities:

standard form

Rate of Change/Slope:

linear

Exponents;**Scientific Notation:**

base

power / powers

square root

Additional Learning Continuum topics:

- Rational Numbers—Compare/Order

- Integers—Computation

221-230**Concepts building on topics from prior RIT bands:**

Grade 5, end of year	cube root	histogram	parameters
Grade 6, mid to end of year	experimental probability	independent events	theoretical probability
	exponential form	line of best fit	

Grades 7 and 8,
beginning to
end of year**Inequalities;****Linear Functions:**

dependent variable

substitution

independent variable

Relationships involving Lines, Angles, and Polygons:

exterior angle

interior angle

transversal

MATHEMATICS

RIT BAND

+ NORMS

CONCEPTS TO INTRODUCE**Additional Learning Continuum topics:**

- | | |
|--------------------------------------|--|
| - Absolute Value—Concepts/Properties | - Real/Complex Numbers—Concepts/Properties |
| - Rational Numbers—Computation | - Quadratic Functions |
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231-240

Grades 9, 10, 11,
beginning to
end of year

Concepts building on topics from prior RIT bands:

conditional probability
dilation
irrational number
replacement

**Exponential and Logarithmic Functions;
Piecewise/Absolute Value Functions;
Properties and Operations of Functions;
Real/Complex Numbers—Computation:**

axis of symmetry	exponential decay	polynomials
binomial	exponential growth	zeros of a function
domain	monomial	

Pythagorean Theorem;**Trigonometry;****Circles:**

chord
midpoint

241-250**Trigonometric Functions / Radian Measure**

cosine	sine
radians	tangent

Additional Learning Continuum topics:

Rational Functions; Radicals; and Surface Area

251-260**Concepts building on topics from prior RIT bands:**

arc	rotational symmetry
inscribed angle	slant height

Geometric Proof:

postulate
theorem

Reading Concepts by RIT

NORMS: The grade-levels shown in each RIT band are based on the 2015 NWEA Norms Study. They are only an approximation and overall guideline for the difficulty level.

READING			
RIT BAND + NORMS	CONCEPTS TO INTRODUCE		
Below 161 Grade K, beginning to end of year	Base Words, Affixes:		
	base	ending	prefix
	beginning	ending sound	word
	beginning sound		
	Inferences, Conclusions, Predictions; and Locating Information: where		
	Context Clues—Unknown and Multiple-Meaning Words; Picture Vocabulary; Word Relationships; Text Features, Visuals:		
	activity	guess	picture
	animals	main	same
	describes	meaning	similar
	find	paragraph	story
	Additional Learning Continuum topic: - Academic and Content Vocabulary		
161-170 Grade 1, beginning of year	Concepts building on topics from prior RIT bands:		
	author	hear	sentence
	chart	hint	smell
	clue	label	taste
	contraction	nature	think
	feel	note	Venn diagram
	feelings	root	visual
	graph	see	
	Main or Central Idea, Topic, Titles;		
	central	different	problem
	classify	important	reason
	compound	lesson	text
	description	main point	title
	determine	people	topic

READING

RIT BAND

+ NORMS

CONCEPTS TO INTRODUCE**Following Directions:**

categorize	instructions	order
directions	learn	question
group	list	set
information	locate	sort

Additional Learning Continuum topics:

- | | |
|---|------------------------|
| - Author's Craft—Figurative Language, Imagery + Description | - Purpose |
| - Characteristics of Genre | - Sequencing |
| –Business, Technical, Procedural | - Setting |
| –Literary Nonfiction | - Theme, Moral, Lesson |
| –Persuasive, Argumentative | - Word Categorization |
| - Plot | |
-

171-180Grade 1,
mid to end of yearGrade 2,
beginning of year**Concepts building on topics from prior RIT bands:**

action	locate	predict
change	location	sequence
conclusion	main character	setting
event	plot	suffix
illustration		

Characteristics of Genre—Literary;**Author's Craft—Perspective, Attitude:**

fairy tale	poem	short story
fiction	poet	speaker
make-believe	poetry	

Characteristics of Genre—Informational:

informational	nonfiction	source
purpose	reference	

Facts and Opinions:

belief	opinion	true
fact	real	truth
factual	statement	view

Additional Learning Continuum topics:

- Assertions and Claims
 - Author's Craft—Persuasive and Rhetorical Techniques
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READING

RIT BAND

+ NORMS

CONCEPTS TO INTRODUCE**181-190**Grade 2,
mid to end of yearGrade 3,
beginning of year**Concepts building on topics from prior RIT bands:**

antonym	graphic organizer	synonym
develop	homonym	thesaurus
dictionary	realistic	timeline
genre	realistic fiction	title page
glossary	resource	

Summarizing, Paraphrasing:

in your own words	restate	summary
paraphrase	retell	theme
related	summarize	

Mood;**Point of View:**

compare	narrator (perspective, attitude)	third-person viewpoint
differ	point of view	
effect		
mood		

Additional Learning Continuum topic:

- Word Nuances and Shades of Meaning

READING

RIT BAND

+ NORMS

CONCEPTS TO INTRODUCE**191-200**Grade 3,
mid to end of year**Concepts building on topics from prior RIT bands:**

author's focus	drama	reference material†
caption†	first-person point of view	resolution
character relationship	homophone	rising action
claim	index†	subheadings†
climax	lead	supporting character
conflict	newspaper writing	table of contents†
context	characteristics	title (choose the best)
contrast		
definition		

†purpose of each

Supporting Details;**Inferences, Conclusions, Predictions:**

cause-effect	detail	support
central idea	main idea	supporting details
characterize	reinforce	

Additional Learning Continuum topic:

- Author's Craft—Foreshadowing, Flashback

READING

RIT BAND

+ NORMS

CONCEPTS TO INTRODUCE**201-210**Grade 4,
mid to end of yearGrade 5,
beginning to mid-year**Concepts building on topics from prior RIT bands:**

alliteration	exposition	literary element
analyze	falling action	metaphor
bias	figurative language	persuade
character motivation	flashback	onomatopoeia
characteristics	foreshadow	persuasive
conclude	idiom	resolve
comparative	inform	secondary source
contribute	library	simile
convince	literal description	stereotype
evaluate	literary device	superlative
evidence		

Text Structure—Organization:

form	structure	white space*
organization	varied typeface*	

*purpose in informational text

Dialogue:

conversation
converse
dialogue

Additional Learning Continuum topic:

- Author's Craft—Style, Voice, Tone

211-220Grade 5,
end of yearGrades 6 to 8,
beginning
to end of yearGrade 9,
beginning of yearGrade 10,
beginning of year**Concepts building on topics from prior RIT bands:**

analogy	history	style
argue	imagery	summarizing strategies
argumentative	intent	technique
assumption	intention	tone
drama	irony	voice
historical document (relationship between two parts)	paradox	

READING

RIT BAND**CONCEPTS TO INTRODUCE**

+ NORMS

221-230**Concepts building on topics from prior RIT bands:**Grade 9,
mid to end of year

allegory

fable†

sonnet

Grade 10,
mid to end of year

all-knowing

legends†

tales†

Grade 11,
beginning
to end of year

extended metaphor

myths†

†distinguish between

231-240**Concepts building on topics from prior RIT bands:**

ironic point of view (effect on meaning)

stage directions

tone

241-250**Concepts building on topics from prior RIT bands:**

satirical passage (understand author's point)