

DesCartes: A Continuum of Learning[®]

VOCABULARY

for the Web-based MAP[®] system

DesCartes Vocabulary	
Reading	
Language Usage	
Mathematics	
Science	
Concepts and Processes	
General Science	

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DesCartes Vocabulary

The following pages identify NWEA's assessment vocabulary for reading, language usage, mathematics, science concepts and processes, and general science. Within each DesCartes subject area, vocabulary is included in the first RIT score range in which they appear. The RIT score range here indicates when the corresponding group of words may need to be introduced into the curriculum for this subject area, based on all NWEA data.

Reading

The following table identifies the reading assessment vocabulary at each RIT score range:

RIT SCORE RANGE	READING VOCABULARY		
141-150	beginning soundletter	 narrative 	
151-160	 ABC order book ending sound paragraph 	 prefix report rhyme 	 riddle sentence story
161-170	 advertisement base compound word contraction directions fairy tale folk tale index 	 list main idea note nursery rhyme opposite passage personal narrative poem problem question 	 root setting sign syllable table of contents thank-you note vowel word family
171-180	 announcement article atlas author author's purpose bias biography business letter category chapter character cookbook dictionary 	 effect fable fact fantasy journal label main character make-believe newspaper nonfiction opinion outline 	 persuasive essay root word rule schedule science fiction short story statement suffix tall tale textbook title title page

Table 1: Reading Vocabulary

RIT SCORE RANGE	READING VOCABULARY		
181-190	 advertise 	 glossary historical 	• poet
	• almanac	fiction	• poetry
	 antonym 	 instructions 	 point of view
	 bibliography 	 invitation 	 predict
	 cause and effect 	 legend 	 reference book
	 characteristics 	 magazine 	 resource
	 classify 	• manual	• source
	conclusion	• mood	 summarize
	 conflict 	• moral	• text
	 definition 	 multisyllabic 	theme
	describe	 order of events 	thesaurus
	 encyclopedia 	 phrase 	 topic sentence
	fiction	• play	 Venn diagram
		• plot	
404 202	• genre	•	
191-200	American literature	fact and opinion	• novel
	• analogy	 figure of speech 	• persuade
	• argue	footnote	 policy
	 caption 	 guide words 	 purpose
	• chart	• infer	 recipe
	• climax	 inference 	 resolution
	• compare	• inform	 rhythm
	 compare and contrast 	 job announcement 	 rising action
	 description 	• labels	 science book
	• detail	• main point	• speaker
	 develop 	• memoir	• stanza
	• drama	• meter	 synonym
	• entertain	• myth	• topic
	• essay	 narrator 	 vocabulary
	• example	• news	 word root
201-210	• acronym	• dialogue	• pamphlet
201 210	 alliteration 	• diary	 personal essay
	 anecdote 	 draft editorial 	 persuasion
	 annotated 	 evaluate 	 problem and solution
	bibliography	 evaluate exaggeration 	 reference
	 anthology 		
	• argument	excerpt	 reference material
	 assumption 	• explain	 research
	•	 feeling field guide 	• review
	 autobiography 	 figurative language 	 satire
	 book review British literature 	• graph	• scene
	British literature	 graphic organizer 	 secondary source
	brochure	 homonym 	 sequence
	 catalog 	 literary device 	• simile
	 chronological order 	 literary element 	 speech
	 conclude 	• map	 summary
	 context 	 middle sound 	• verb
	 conversation 		

RIT SCORE RANGE	READING VOCABULARY		
211-220	 allusion appendix cause characterization characterize chronological classified ad connotation coupon debate diagram exposition falling action flashback 	 guide letters headline hyperbole idiom imagery instruction irony memo memorandum metaphor narrate onomatopoeia parable personification persuasive 	 prediction present tense primary source primary source historical document pun quote research paper resolve revision subject suspense thesis paper word play
221-230	 foreshadowing aphorism assonance consonance contrast first person form homophone archetype omniscient oxymoron 	 picture book journalism literature quotation second person sonnet symbolism table tale paradox pathetic fallacy standard English 	 term third person tone viewpoint voice world literature stereotype symbolize syntax
241-250 251-260	 oxymoron cliché iambic pentameter antithesis parallelism 	standard English metric feet synecdoche scansion	• syntax

Language Usage

The following table identifies the language usage assessment vocabulary at each RIT score range:

Table 2: Language Usage Vocabulary

RIT SCORE RANGE	LANGUAGE USAGE VOCABULARY		
151-160	sentence		
161-170	 capital letter comma command comparative date exclamation 	 invitation letter mark paragraph period poem 	 possessive question statement story superlative
171-180	 advertisement apostrophe contraction cookbook directions edit essay exclamation mark 	 exclamation point greeting phrase poetry pronoun proofread punctuation question mark 	 report sequence short story sign spelling verb word order
181-190	 action verb address audience body book report book title brainstorm business letter capitalize chronological order closing colon compound sentence detail diagram diary draft 	 exclamatory sentence fact fairy tale friendly letter heading hyphen indent journal list main heading main topic narrative noun nursery rhyme outline passage past tense play 	 plural predicate publish punctuate revise run-on sentence semicolon signature singular stanza subject title to describe topic sentence where writing process

RIT SCORE RANGE	LANGUAGE USAGE VOCABULA	ARY	
191-200	 abbreviation 	 explanation 	 persuasive writing
	 adjective 	 expository 	• plot
	 adverb 	 expository writing 	 proper noun
	 advertise 	 fantasy 	 quotation
	 argument 	 fiction 	 quotation mark
	 article 	 figurative language 	 research
	 author's purpose 	 folk tale 	 review
	 bibliography 	• form	 revision
	 biography 	 future tense 	 rhyme
	 book review 	• grammar	 salutation
	 cause and effect 	 graphic organizer 	 schedule
	 character 	 imperative sentence 	 science fiction
	 classified ad 	 introduction 	 setting
	- clause	 letter closing 	 subject-verb
	 compare 	 literary analysis 	agreement
	 compare and contrast 	• main idea	• tense
	 composition 	• manual	 textbook
	 conclusion 	• margin	 thesaurus
	 creative writing 	• memo	 to entertain
	• data	• mood	 to inform
	 description 	 narrative writing 	 to persuade
	 descriptive writing 	 nonfiction 	 topic
	 dictionary 	• novel	 verb phrase
	• drama	 opinion 	 when
	• ending		
201-210	 antecedent 	 format 	 prepositional
	 argumentative essay 	 freewrite 	phrase
	• author	• graph	 present tense
	 autobiography 	 informative essay 	 sentence fragment
	• book	 interrogative sentence 	• simile
	• caret	 introductory sentence 	 singular noun
	• chart	• legend	 slang
	 declarative sentence 	 linking verb 	 subordinate clause
	definition	 literature 	supporting detail
	 dependent clause 	 log magazine 	• symbol
	direct object	• main verb	• syntax
	 direct quotation 	 make-believe 	 thank-you note
	 encyclopedia 	 mystery 	 thesis statement
	• explain	 myth object 	 transition
	 formal essay 	 pamphlet 	 word choice
	 formal language 	 parentheses 	

RIT SCORE RANGE	LANGUAGE USAGE VOCABUL	ARY	
211-220	• abstract	 hyperbole 	 plural possessive
	 active voice 	• idiom	 preposition
	 alphabetical order 	 imagery 	 present participle
	• analyze	 independent clause 	 prewrite
	 application 	 infinitive phrase 	 prewriting
	 appositive 	 instructions 	 primary source
	 capitalization 	 interjection 	 problem and
	 characteristics 	 journalistic 	solution
	• cluster	 language 	 process essay
	 comma splice 	 limerick 	 purpose
	 common noun 	 main clause 	 resumé
	 comparison 	 main point 	 rhetorical question
	 complex sentence 	 metaphor 	 rough draft
	 compound-complex 	 modifier 	 simple sentence
	sentence	 noun clause 	 source
	 conjunction 	 noun phrase 	 summarize
	 contrast 	 onomatopoeia 	 summary
	 documentation 	 organization 	 synonym
	 editorial 	 parallelism 	 theme
	 exposition 	 part of speech 	 to explain
	 expository essay 	 participial phrase 	 tone
	 figure of speech 	 participle 	 verse
	 fragment 	 persona 	 visualize
	 generalization 	 personification 	 voice
	 how-to essay 		
221-230	 alliteration 	 expository paragraph 	 persuasive
	 allusion 	• irony	argument
	• analogy	 literary device 	 plagiarize
	 assonance 	 literary response 	 predicate noun
	• cliché	 paraphrase 	 reflexive pronoun
	 compose 	• parody	 symbolism
	 consonance 	 participial 	
231-240	 appositive 	• dash	 italics
	 adjective clause 	 ellipsis 	 nominative pronoun
	 adjective phrase 	 epic poem 	 objective pronoun
	 adverb clause 	 fable footnote 	 supporting
	 allegory 	 formal outline 	evidence
	 analysis 	 gerund 	 tragedy
	 apostrophes 	 hypothesis 	 underlining
	 chapter 	 infinitive 	 works cited
	 colloquialism 		
241-250	• anecdote		

Mathematics

The following table identifies the mathematics usage assessment vocabulary at each RIT score range:

RIT SCORE RANGE	MATHEMATICS VOCABUL	ARY	
151-160	 estimate 	• length	 shape
	• half	• most	• size
	 inch 	• same	 tallest
161-170	• add	• feet	• penny
	• addend	• flat	 pyramid
	 centimeter 	• largest	 rectangle
	• circle	 longest 	 shortest
	• cone	 more number 	 sphere
	• corner	 number line 	 square
	 cylinder 	 number sentence 	• tall
	• equal	• pattern	 triangle
171-180	 between 	• hour	 pound
	• cent	 hundred 	• quart
	• count	 hundreds 	 represent
	• cube	 less than 	• similar
	 diamond 	 line segment 	 square unit
	• dime	• metric	 subtract
	 divide 	• minute	• sum
	• dollar	• model	• table
	 even number 	 most likely 	 temperature
	 fact family 	 multiply 	• ten
	 factor 	 numeral 	• tens
	 fewest 	• one	 thermometer
	 figure 	• ones	 thousand
	• gram	• ounce	• time
	• graph	 outside 	• total
	• greater	 perimeter 	 whole number
	 greater than 		

RIT SCORE RANGE	MATHEMATICS VOCABULARY		
181-190	 addition 	 fraction 	• point
	• after	• gallon	• quarter
	• angle	 geometric figure 	• rate
	• area	 half past 	 rotation
	• average	• height	 round
	 before 	 kilometer 	• row
	 Celsius 	• large	 second
	 chance 	• least	 sentence
	• chart	• less	• set
	 clock 	• line	 seventh
	 clockwise 	 line of symmetry 	 side
	 closest 	• liter	 slide
	 congruent 	• lowest	 smallest
	• cost	• measure	 solve
	 counting order 	• meter	 symmetry
	• cup	• mile	 tablespoon
	• day	• more than	• taller
	 degree 	 morning 	 teaspoon
	 distance 	most often	 ten thousand
	 divisible 	 multiplication 	• tenth
	• dozen	 nickel 	 thirds
	 equation 	• noon	• turn
	 estimation 	• o'clock	• unit
	• flip	 odd number 	• width
	• foot	• order	• yard
	 fourths 	• pint	• year

RIT SCORE RANGE	MATHEMATICS VOCABULARY		
191-200	 approximate 	• latest	 right angle
	 coins 	 line graph 	• rise
	 composite number 	 measurement 	• rod
	 consecutive 	 miles per hour 	 same shape
	 decade 	 milliliter 	• scale
	 deposit 	 million 	• sign
	• diagonal	 nearest 	 spinner
	• diagram	 number statement 	 square inch
	 difference 	 operation 	 subtraction
	 digit 	• parallel	 subtrahend
	 division 	 parallelogram 	 surface
	 dollar sign 	 percent 	 symbol
	 face 	 perpendicular 	 thousands
	• fact	 polygon 	 thousandth
	 Fahrenheit 	 prime number 	• ton
	 fewer 	 product 	 unifix cubes
	• first	 quarter past 	• value
	 fourth 	 quarter to 	 vertical line
	 greatest 	• ray	 weight
	 hundredth 	 rectangular prism 	 what time
	 intersect 	 rectangular solid 	• zero
	• kilogram		

RIT SCORE RANGE	MATHEMATICS VOCABULARY		
201-210	 about how much 	• inside	 proportion
	 acute angle 	 inverse operation 	 quadrilateral
	• altitude	• kite	 random
	• bar graph	• larger	 rectangular
	• base	 less likely 	 rectangular box
	• below	 lowest common 	 regroup
	 biggest 	denominator	 regular polygon
	billion	 magic square 	 rename
	 capacity 	• mass	 rhombus
	• change	 mathematical statement 	• rule
	 circumference 	• maximum	• ruler
	 compatible numbers 	 miles per gallon 	 sequence
	 coordinate point 	• milligram	 skew
	 cubic unit 	 millimeter 	 speed
	• data	• Minimum	 square number
	• decameter	 mirror image 	 standard numeral
	 decimeter 	 mixed number 	 statement
	 decrease 	 multiple 	 straight
	• double	 negative 	 symmetrical
	• east	• north	 ten thousands
	 equivalent 	 number cube 	 times
	 expanded numeral 	 obtuse angle 	 trapezoid
	• fold	 octagon 	 triple
	 greatest common 	 ordered pair 	• twist
	factor	• origin	 volume
	• grid	• oval	• week
	 how many more 	 pentagon 	 when
	 hundred million 	• plane	 wide
	 hundred thousand 	 positive 	
	 hundredths 	 probability 	

RIT SCORE RANGE	MATHEMATICS VOCABUL	ARY	
211-220	 above 	• high	 radius
	 century 	 how many 	• ratio
	 circle graph 	 hundred thousands 	 reduce
	 column 	 increase 	 reflection
	 combinations 	 integer 	 region
	 common multiple 	 least common 	 remainder
	 commutative 	denominator	 Roman numeral
	 compare 	 likelihood 	 simplify
	 congruent angle 	 line of best fit 	• smaller
	• cord	 line plot 	• south
	• date	 lowest terms 	 square centimeter
	 decimal 	• mean	 square feet
	 decimal form 	 micrometer 	 square mile
	 decimal point 	 mileage table 	 straight angle
	 diameter 	• month	 systematic list
	• dice	• odd	• tails
	 dilation 	 parallel line 	 three-dimensional
	 evaluate 	 perpendicular line 	 transformation
	 factor tree 	 place value 	 translation
	 fitted line 	• plus	 triangular prism
	• formula	• proof	 trillion
	 function 	 property 	 union
	 geometric solid 	 protractor 	 vertex
	 heads 	 prove 	 vertical angle
	 hectometer 	 quintillion 	• west

RIT SCORE RANGE	MATHEMATICS VOCABULARY				
221-230	• 5-frame	 enlargement 	 positive linear 		
	 absolute value 	• equilateral	relationship		
	• algebra	 experimental probability 	 predict 		
	 algebraic equation 	 expression 	 prime factorization 		
	• annual	• fastest	 quadrant 		
	 associative 	 frequency table 	 real number 		
	• bill	 heaviest 	 rectangular shape 		
	 box-and-whisker plot 	 inequality 	 reflexive 		
	• center	 interest 	 scalene triangle 		
	• coin	 isosceles triangle 	 scatter plot 		
	 common denominator 	 lightest 	 shorter 		
	common factor	 longer mathematical 	 square meter 		
	• compute	sentence	 standard form 		
	• constant	• median	 stem and leaf plot 		
	 coordinate 	• middle	 substitution 		
	cubic centimeter	 midpoint 	 survey 		
	cubic feet	• mode	 ten million 		
	cubic meter	• net	 ten thousandth 		
	 cubic millimeter 	• ninth	 theoretical probability 		
	• cubic yard	 obtuse triangle 	 thousandths 		
	 dimension 	• outcome	 transitive 		
	 distributive 	 partial product 	 twice 		
	• edge	• pi			
231-240	 acute triangle 	 how long 	 scale factor 		
	 algebraic sentence 	 how much time 	 scale model 		
	• arc	incline	 scientific notation 		
	 arithmetic progression 	 interior angle 	• secant		
	 borrow 	 interval 	 short 		
	chord	 kilowatt 	 slope 		
	 chord congruent side	kilowattlong	 slope solution		
	 chord congruent side convert 	kilowattlonglower quartile	 slope solution square pyramid		
	 chord congruent side convert corresponding angle 	 kilowatt long lower quartile magnitude 	 slope solution square pyramid square region 		
	 chord congruent side convert corresponding angle corresponding side 	 kilowatt long lower quartile magnitude matrix 	 slope solution square pyramid square region successive 		
	 chord congruent side convert corresponding angle corresponding side cross-section area 	 kilowatt long lower quartile magnitude matrix meters per minute 	 slope solution square pyramid square region successive system of equations 		
	 chord congruent side convert corresponding angle corresponding side cross-section area cubed 	 kilowatt long lower quartile magnitude matrix meters per minute minus 	 slope solution square pyramid square region successive system of equations tangent 		
	 chord congruent side convert corresponding angle corresponding side cross-section area cubed cubic inch 	 kilowatt long lower quartile magnitude matrix meters per minute minus opposite 	 slope solution square pyramid square region successive system of equations tangent tax 		
	 chord congruent side convert corresponding angle corresponding side cross-section area cubed cubic inch data point 	 kilowatt long lower quartile magnitude matrix meters per minute minus opposite outlier 	 slope solution square pyramid square region successive system of equations tangent tax tenth power 		
	 chord congruent side convert corresponding angle corresponding side cross-section area cubed cubic inch data point discount 	 kilowatt long lower quartile magnitude matrix meters per minute minus opposite outlier parabola 	 slope solution square pyramid square region successive system of equations tangent tax tenth power tenths 		
	 chord congruent side convert corresponding angle corresponding side cross-section area cubed cubic inch data point discount ellipse 	 kilowatt long lower quartile magnitude matrix meters per minute minus opposite outlier parabola percentile 	 slope solution square pyramid square region successive system of equations tangent tax tenth power tenths term 		
	 chord congruent side convert corresponding angle corresponding side cross-section area cubed cubic inch data point discount ellipse equality 	 kilowatt long lower quartile magnitude matrix meters per minute minus opposite outlier parabola percentile power 	 slope solution square pyramid square region successive system of equations tangent tax tenth power tenths term tessellation 		
	 chord congruent side convert corresponding angle corresponding side cross-section area cubed cubic inch data point discount ellipse equality expanded notation 	 kilowatt long lower quartile magnitude matrix meters per minute minus opposite outlier parabola percentile power quadrupled 	 slope solution square pyramid square region successive system of equations tangent tax tenth power tenths term tessellation tripled 		
	 chord congruent side convert corresponding angle corresponding side cross-section area cubed cubic inch data point discount ellipse equality expanded notation exponent 	 kilowatt long lower quartile magnitude matrix meters per minute minus opposite outlier parabola percentile power quadrupled range 	 slope solution square pyramid square region successive system of equations tangent tax tenth power tenths term tessellation tripled upper quartile 		
	 chord congruent side convert corresponding angle corresponding side cross-section area cubed cubic inch data point discount ellipse equality expanded notation exponent frequency 	 kilowatt long lower quartile magnitude matrix meters per minute minus opposite outlier parabola percentile power quadrupled range right triangle 	 slope solution square pyramid square region successive system of equations tangent tax tenth power tenths term tessellation tripled upper quartile vector 		
	 chord congruent side convert corresponding angle corresponding side cross-section area cubed cubic inch data point discount ellipse equality expanded notation exponent 	 kilowatt long lower quartile magnitude matrix meters per minute minus opposite outlier parabola percentile power quadrupled range 	 slope solution square pyramid square region successive system of equations tangent tax tenth power tenths term tessellation tripled upper quartile 		

RIT SCORE RANGE	MATHEMATICS VOCABUL	ARY	
241-250	 adjacent angle algebra tile alternate exterior angle alternate interior angle alternate interior angle angle bisector average salary commission complementary angle conclusion congruent triangle construction converse correlation domain equation of a line 	 equiangular triangle equilateral triangle function table hyperbolic hypotenuse infinite interquartile range least common multiple leg linear foot linear graph linear pair number sequence point of intersection precise prime factor Pythagorean theorem 	 rectangular area regression equation semicircle series square yard squared sum of measures supplementary surface area symmetric times table valid velocity whole wider x-axis y-axis
251-260	 central angle coordinate plane exterior angle feet per second heptagon hexagon how much inscribe polynomial 	 quartile regular hexagon representative sample right cylinder right pyramid slant height slope-intercept form solution set square kilometer 	 supplementary angle time-and-a-half transversal undefined variable x-coordinate y-coordinate y-intercept
261-270 271-280	 adjacent side axis circular collinear cosecant cosine counterexample axis of symmetry 	 depreciate empty set geometric series line symmetry opposite side point symmetry regular pentagon perpendicular bisector 	 rotational symmetry semi-annual sine trigonometric function trigonometric relationship x-intercept decagon
281-290	 axis of symmetry bisector exponential identity 	 perpendicular bisector inverse log 	reciprocal

Science

The following pages identify NWEA's assessment vocabulary for science concepts and processes, and general science.

Concepts and Processes

The following table identifies the science (concepts and processes) usage assessment vocabulary at each RIT score range:

RIT SCORE RANGE	CONCEPTS AND PROCESSES VOCABULARY			
161-170	• liquid			
171-180	 after before belong bird candle cause change compare count direction electricity energy 	 find out flame flower gas match moving number order person plant rank represent rock 	 scale (tool) science shape side solid Sun technology time tree variable water weigh 	

Table 4: Science, Concepts and Processes Vocabulary

RIT SCORE RANGE	CONCEPTS AND PROCESSES VOCABULARY				
181-190	 accurate 	• grow	• reason		
	• air	 have in common 	 record 		
	 balance (tool) 	• heat	 report 		
	• chart	 heat energy 	• rough		
	• cold	 height 	• ruler		
	 common 	• hot	 scientist 		
	 conclude 	 information 	• see		
	 determine 	 interaction 	• sense		
	• Earth	 length 	 shelter 		
	• effect	• light	• sight		
	 energy source 	 magnifying glass 	• size		
	 estimate 	• matter	• smell		
	 expect 	• measure	 smooth 		
	 experiment 	 measurement metric 	• soil		
	• feel	ruler	• solar		
	 feet (measurement) 	- Moon	• sound		
	 field (meadow) 	 mountain 	• sour		
	 information 	• move	• steam		
	• fire	 nonliving 	 switch 		
	• food	 object 	• taste		
	• form	 observation 	 telescope 		
	 form of matter 	 observe 	 temperature 		
	• freeze	• oil	 thermometer 		
	• fuel	 operational definition 	• tool		
	 gasoline 	 organism 	• touch		
	• graph	• people	• universe		
	• gravity	 probable reason 	• wind		
	• group	 question 	• wire		
		• radio			

RIT SCORE RANGE	CONCEPTS AND PROCESS	SES VOCABULARY	
191-200	• (data) log	hypothesis	• pull
	• animal	 identify 	 quantification
	 atmosphere 	• image	 quantify
	• average	• infer	• rain
	Celsius	• insect	 regular pattern
	centimeter	 interact 	reliable
	 chemical energy 	 investigation 	• result
	 classify 	 kinetic energy 	• river
	- color	• infer	 rotation
	compressed	• insect	• sand
	• computer	 interact 	 scientific theory
	 conclusion 	 investigation 	 second
	condense	 kinetic energy 	- seed
	condition	• leaf	 seeing
	 constant 	light energy	• senses
	 control variables 	• live	• sequence
	• cool	• lung	• series
	• creek	• magnet	 situation
	• cycle	magnifying lens	• sky
	cyclic pattern	• material	• smelling
	• data	 microscope 	 solar energy
	• day	• model	 space
	• degree	• molecule	• speed
	• diagram	motion	• spring (metal)
	 direct observation 	• notes	 state of matter
	directions	 nuclear energy 	 stethoscope
	distance	• ocean	• stick
	• eat	• opinion	 stored energy
	• enlarge	• pattern	• study
	evolution	• percentage	• support
	experimental result	• perception	• table
	• extend	• period	• tasting
	• fact	population	• theory
	• field	 potential energy 	• time zones
	• force	• power	 vibration
	• gradient	• predict	• vision
	• gradual change	 prediction 	• volume
	• ground	• pressure	• weight
	 hand lens 	• process	• world
	• hear	proportion	• X-ray machine
201-210	absolute knowledge	• gather	• problem
	 affect 	 generalization 	 purpose
	 apparent size 	 graduated cylinder 	• push
	• area	 gravitational field 	• quality

RIT SCORE RANGE	CONCEPTS AND PROCESS	CONCEPTS AND PROCESSES VOCABULARY			
	 arrangement 	 habitat 	 quantity 		
	 balance (equilibrium) 	 hold constant 	 random group 		
	 breathe 	• hour	• ray		
	 chance 	• ice	• reject		
	 characteristic 	 imbalance 	 replicate 		
	 circle 	 inference 	 research 		
	• claim	 instrument 	 reversible 		
	• comet	 interpret data 	 scale (measurement) 		
	 communicate 	investigate	 scale (size) 		
	 contact 	 justify 	 scientific law 		
	• crystal	- level	 scientific model 		
	 deceleration 	 machine 	• shell		
	 deep space 	 magnification power 	 significant 		
	 density 	• mass	 slope 		
	 describe 	 meter stick 	 southwest 		
	 design 	• mile	 statistics 		
	 discard 	 movement 	 surface 		
	 disease 	 muscle 	• system		
	 disequilibrium 	 negative deceleration 	• test		
	• east	• north	• texture		
	 equilibrium 	 nutrition 	 thermostat 		
	 evaluate 	 observable 	 time interval 		
	 evidence 	 orderly 	 trial-and-error 		
	 evolutionary change 	• per	procedure unit		
	 evolve 	• pH meter	• valid		
	• exert	 physical model 	 velocity 		
	• explain	• point	 volcano 		
	 explanation 	 population control 	 wave 		
	extinct	 precise 	• west		
	 factor 	 predator 	 winter 		
	 field of view 	 predictable 	• year		
	 friction 				

RIT SCORE	CONCEPTS AND PROCESSES VOCABULARY			
RANGE				
211-220	 accelerate balance beaker birth rate coal coincidence column composition cyclic cyclic phenomenon decrease dependent design experiment diameter diameter diasel double-pan balance electrical field electrical field electrical y neutral episodic evolutionary trend experimentation eyewitness formulate model geologist 	 geothermal heating hypothesize inconclusive increase independent variable indicate independent variable indicate interval judgment life function life-span mechanical mechanism meter natural gas negatively-charged nonrenewable energy resource nuclear number pattern orderly pattern pendulum phenomena physical property plate positively-charged 	 precision probable quantitative random rate reasonable result regular increase regulated renewable energy source renewable resource repeat repel reproduce reproduction results scale model scaled up sphere testable theorize three-dimensional space vary wood 	
221-230	 abiotic factor assumption attraction biotic factor compass control controlled experiment conversion current dimensions elevation event factual finding (scientific) 	 input intensity invalid (data) living magnetic magnetic field modification northern lights output Periodic Table of the Elements pole position 	 principle procedure regular time interval replicable researcher respiration scientific scientific evidence scientific method sea level sense extender separation source 	
231-240	 cancellation opposing forces 	 qualitative significance 	• validation	

General Science

The following table identifies the general science usage assessment vocabulary at each RIT score range:

RIT SCORE RANGE	SCIENCE, GENERAL SCIENCE VOCABULARY			
161-170	• animal • bird	• egg	 life cycle 	
171-180	• (pine) cone	• fall fish	• mountain	• smog
	• air	 flower 	 neck 	 snow
	 amphibian 	• fog	• need	• soil
	• bean	 forest 	• nest	 spider
	• body	• frog	• ocean	 spring
	 breathe 	 gasoline 	• plant	 stage
	• bud	• gill	 protect 	• stem
	 burrow 	• grow	• pull	 summer
	• caterpillar	• hail	• push	• Sun
	• cave	 hatch 	• worm	 temperature
	 cloud 	• head	 reptile 	• time
	• coal	 hibernate 	 rock root 	• toad
	• cool	• hot	 season 	• tree
	• cycle	• ice	• seed	 turtle
	• den	• jungle	 seedling 	• waist
	• desert	• leaf	• shell	 weather
	• dew	• leg	 shoulder 	 wind
	 drown 	• liquid	• skin	
	• Earth	• mammal	• sleet	

Table 5: Science, General Science Vocabulary

RIT SCORE RANGE	SCIENCE, GENERAL SCIENCE VOCABULARY				
181-190	• (egg) shell	 energy 	• mantle	 shadow 	
	 absorb 	 evaporation 	• map	 shrub 	
	 active 	 feather 	 Mars 	• sight	
	 alive 	• feel	 measure 	 signal 	
	 Alpha Centauri 	 fossil 	 measuring cup 	 sleep 	
	 anemometer 	 friction 	 Mercury (planet) 	• smell	
	 atmosphere 	 fungus 	• metal	 solar system 	
	 autumn 	• gas	• meter	 solid 	
	 backbone 	• grain	• milk	 sound 	
	 bacteria 	 gravity 	• minute	 spears 	
	 balance (scale) 	• hair	• mold	 spring scale 	
	• bank	• hear	• Moon	• star	
	 barometer 	• heart	• mouth	• steam	
	 beach 	• heat	 natural resource 	 stomach 	
	• beak	 height 	 nectar 	• stone	
	 body of water 	• herb	• night	• store	
	• bone	 herbivore 	 nutrient 	 stream 	
	• bush	hind	 observe 	 structure 	
	 calorie 	 hydrometer 	 ocean floor 	 sunlight 	
	 carbon dioxide 	 hygrometer 	Orion	 surface 	
	 carnivore 	• inch	 oxygen 	• swim	
	 cavities 	 Inertia 	 precipitation 	• tar	
	• clam	• insect	• pump	• taste	
	 cold-blooded 	 intestines 	 recycle 	 thermometer 	
	 condensation 	• iron	 rib planet 	• tool	
	 conservation 	 Jupiter 	Pluto	 touch 	
	• core	• knee	 polarization 	 unit of measure 	
	 crust 	 land 	Pole Star	Uranus	
	 crystal 	 length 	 polluted 	• vine	
	• day	• light	 pollution 	 vitamin 	
	 daytime 	living	• salt	• water	
	degree	• load	• sand	• water cycle	
	• drink	• lung	 Saturn 	• water vapor	
	 earthquake 	• magnet	 scale 	• winter	
	 efficiency 	 magnetic field 	 seasonal change 	• wood	
	 electricity 	 magnetism 	• see	 woods 	
	 enemy 	 magnifying glass 	• sense	• work	

RIT SCORE RANGE	SCIENCE, GENERAL	SCIENCE VOCABULARY	,	
191-200	• abdomen	 developmental 	• granite	movement
	• adapt	sequence	 gravitational 	• muscular system
	asteroid	• diagram	force	• mushroom
	• atom	 digestion 	• ground	• nebula
	attract	 digestive system 	 ground wire 	Neptune
	attraction	• direct (sunlight)	• group	 nitrogen
	• axis	direction	• growth	 nocturnal
	• bark	 dissolve 	• gust	• nymph
	• blood	 distance 	 habitat 	 observation
	 body part 	down draft	heat energy	obsidian
	 body part body segments 	• dust	 hibernation 	• obtain
		Earth's surface	• hide	
	• boil	• echo	 high-pitched 	ocean current
	breeze	electrical	 host 	• order
	bristle	conductor	• humidity	• organism
	 camouflage 	 electrical energy 		• parasite
	• cat	electrical force	hunger	• particle
	• cell		 hydrogen 	• petal
	 cell wall 	electromagnetism	hypothesize	 photosynthesis
	 cephalothorax 	energy source	 inference 	• pitch
	 change 	• equilibrium	 ingestion 	• plant cell
	 characteristic 	• erosion	• internal	 plant-eater
	 chloroplast 	• esophagus	 intestine 	 Polaris
	 circulation 	• evaporate	 invertebrate 	 predator
	 circulatory 	• exercise	• larva	 prevailing wind
	system	 experimentation 	 latitude 	• prey
	 classification 	 explanation 	• lava	 producer
	 classify 	 extinct 	• layer	 protection
	• claw	 feline 	• lever	protective
	 climate 	 field 	 lightning 	coloration
	cohesion	• fire	 lignite 	• pupa
	color	• flood	• loud	• rabbit
	• comet	 food chain 	 low-pitched 	• rate
	complete	 food web 	 lubricant 	 reflect
	(circuit)	force	 lysosome 	 relationship
	condense	• form	• magma	• repel
	constant	• four-chambered	• mass	reproduce
	consumer	heart	• matter	 reproduction
	container	• freeze	• meat-eater	 reproductive
	Coriolis force	• fruit	• melt	system
	• crack	• fulcrum	 mineral 	 respiratory
	cross section	function	• mix	system
	cubic	• galaxy		response
	 daylight 	• gale	 molecule 	• rest
		• gather	• month	 revolve
	decay defense	 geographic area 	• moon (satellite)	• rotate
	 defense 	geographic area	 motion 	Totale

RIT SCORE RANGE	SCIENCE, GENERAL SCIENCE VOCABULARY				
191-200 continued	 running water scatter seed coat segment shape shelter simple circuit simple machine Sirius skeleton slate solution source spinal cord 	 spines (bristles) spore stages of growth states of matter static electricity stratosphere substance support survive system thorax thunder tide tilt 	 tissue tornado turning point vacuole vapor Venus vertebrate vibration volcanic eruption volcano volume warm-blooded waste waterwheel 	 wave wearing away/down weather cycle weathering wedge week weigh weight wind form wing wolf year 	

RIT SCORE RANGE	SCIENCE, GENERAL	SCIENCE VOCABULAR	Y	
	SCIENCE, GENERAL S - absorption - acid - air pressure - air quality - air resistance - alcohol - aluminum - amphibious - angstrom - animal cell - antenna - anus - antenna - anus - arthropod - atomic structure - ATP - balance (tool) - ball-and-socket joint - bar magnet - base - bill - biome - birth rate - bladder - bladder - blue-green algae - body system - broken (circuit) - canyon - carbon monoxide - cause - cavern	SCIENCE VOCABULAR Circuit overload Circulate Collide Column Commodity Community Compaction Compass Compass needle Complete Metamorphosis Compound Compound Compound Compound Consume Constellation Consume Contract Convert Copper Crater Cross (genetic) Crustacean Cytoplasm Cam Cam Cam Composer Cate Composer Cate Composer Cate Composer Cate Composer Cate Composer Cate Cate Cate Cate Cate Cate Cate Cate	 element eliminate ellipse embryo environment equinox evidence evolution excrete exhale exoskeleton expand factor falling star fault line feet female fertilization filament fin fission fluctuate food supply foot forecast fossil fuel four-legged frunel fuse fused (circuit) fusion 	 hereditary information heredity horizontal hour human hypothesis igneous rock inclined plane individual consumption inert insulate insulation irrigation jellyfish jointed leg kilometer kilometer kilometer kilometer kilometer kinetic energy landslide large intestine life zone light energy light switch light switch light switch light-year itmus paper machine magnesium material
	 cell membrane cell theory Celsius change over time chemical chemical property chemical weathering chlorophyll 	 digest discharge distilled water DNA droplet east echinoderm ecological cycle ecology electric current 	 gaseous generation generator genetics genotype glaciation glacier gravitational attraction greenhouse effect 	 membrane mercury (element) message metamorphic rock meteor meteorite meteorologist migrate
	 circuit circuit breaker 	electrical outletelectron	 hand lens hardness 	mileminimize

RIT SCORE RANGE	SCIENCE, GENERAL SCIENCE VOCABULARY			
	- mitachandria			- vertical row
201-210 continued	 mitochondria 	 physical universe 	 scales 	 vertical row
continued	• mixture	 polar attraction 	 scientist 	• vibrate
	 molecular motion 	• polarize	 screw 	• visible
	 mollusk 	• pole	• sea	 vocal cords
	 muscle 	• pollen	 sea level 	 water pressure
	 native 	 pollination 	 sediment 	 water supply
	 natural gas 	 pollutant 	 sedimentary rock 	 web sublimation
	 negatively 	 population 	 sedimentation 	 succession
	charged	 porous rock 	 seismograph 	 sugar
	 nervous system 	 potential energy 	 selenium 	 sulfur dioxide
	 neutral 	• power	 series circuit 	 sulfur/sulphur
	 neutron 	 prairie dog 	• set	 surface area
	 Newton 	• pressure	 sewage 	 switch
	 niche 	• prism	• silver	 symbiosis
	 nitrogen cycle 	 process 	 sinkhole 	 synthesis
	 nitrogen dioxide 	• protein	• size	texture
	 nonmetal 	• proton	 skeletal system 	• thaw
	• nova	• pulley	• skull	 thermos jug
	 nuclear 	 rainfall 	• sky	 tidal wave
	membrane	 red blood cell 	• slide	• tin
	 nucleolus 	 refract 	 slope 	transpiration
	 nucleus 	 regulate 	 small intestine 	transport
	 offspring 	 relative age 	 social 	• trout
	• oil	• remains	• solute	• turbine
	 oil well 	 respiration 	 solvent 	umbilical cord
	• orbit			
	• organ	 respiratory 	 sound energy source of energy 	• unit
	 organ system 	 ribosome 	 source of energy 	• uranium
	• osmosis	• river	 space 	 urinary bladder
	• ovary	 rock cycle 	 species 	• uterus
	 parallel circuit 	 rock layer 	 spectrum 	• vaporize
	 paramecia 	 rodent 	• speed	 vegetation
	• pattern	• room	 speed of light 	• well
	 parcelling 	temperature	 speed of sound 	• west
		• row	• sperm	 wheel and axle
	 pest petrification 	 sand dune 	 sphere 	 wind speed
	 petrification 	 saturation 	• state	• wire
	• phase	 scale (skin) 	 stationary 	 yolk sac
	 physical union 			

RIT SCORE	SCIENCE, GENERAL S		(
RANGE 211-220	• abyssal floor	• change of state	• electrical wire	• ground water
	 abyssal plain 	chemical bond	 electron affinity 	 heart disease
	• agent	chemical change	endoplasmic	• helium
	• air mass	chemical energy	reticulum	humid
	 air pollution 	chemical reaction	 environmental 	hurricane
	• algae	chlorine	condition	 identify
	 alpha particle 	chromosome	 enzyme 	• igneous
	• amber	 circuit tester 	• erode	 illumination
	 anatomy 	• cirrus	 excretory system 	 implantation
	• angle	 cleavage 	 explosion 	 infection
	 annelida 	 closed container 	 expression 	• infectious disease
	 area of influence 	• cnidaria	• external	 infrared
	 arm (parts of 	 cold front 	appendage	inner core
	balance)	colony	 eye of a hurricane 	• instrument
	 artery 	 conception 	 fair (weather) 	 insulator
	 artesian well 	 coniferous tree 	• fat	 interaction
	 arthropoda 	 continental 	• fault	 interphase
	• ash	margin	 faulting 	 interrelationship
	 atmospheric 	 continental shelf 	 fertilized 	 involuntary
	pollution	 continental slope 	 first class lever 	responses
	• atoll	 crossing over 	 fixed orbit 	• ion
	 atomic energy 	 crustal plate 	• flat	• isotope
	 atomic mass 	 current 	• float	• lichen
	 atomic number 	 cyclone 	 focal length 	• life span
	 average atomic 	 decompose 	 focal point 	 limestone
	mass • balance	 deep-water zone 	 folding 	• liter
		 dehydrate 	• food	• lithium
	 basalt basa (parts of 	• dense	 food pyramid 	 live birth
	 base (parts of balance) 	 deposit 	(ecological)	• liver
	 battery 	 deposition 	 formation 	 long-range effect
	 behavior 	determine	 formula 	 lymphatic system
	 beta particle 	• diet	 frequency 	• magnetic
	 biomass 	dimmer (algebrical)	fresh water	• marble
	 body fat 	(electrical)	• front	 mass number
	 boiling point 	 disease dominant 	• full moon	• mate
	 boundary 	 dominant dny cell batteny 	 gastrulation 	 measurable
	 brake 	 dry cell battery dry ico 	• gear	• meiosis
	 brass 	 dry ice duplicate 	• gene	 melting point
	 capillary 	Earth process	 genetic material 	mercury barometer
	 carbon 	Earth's crust	 gestation 	barometer
	 cell division 	 Earth's crust echinodermata 	• geyser	 mercury thermometer
	 cellulose 		 glucose 	meteoroid
	• centi-	 ecosystem effort 	 Golgi body 	 microorganism
	 centriole 	 effort electrical shock 	• gram	 mid-ocean ridge
	 change of phase 			inia occan nage

RIT SCORE RANGE	SCIENCE, GENERAL SCIENCE VOCABULARY			
211-220 continued	 Milky Way Galaxy milli- mitosis model mollusca moss mutation NASA natural resources new moon nonliving nonrenewable Northern Hemisphere nuclear explosion nuclear power oak ore organelle outer core overpopulate overrowding overweight ovulation ovule pan (parts of balance) parent material penetrate period of revolution Periodic Table of the Elements 	 petrified wood petroleum phase change phylum physical change physical change physical change physical change physical environment pigment pistil plasma plasma membrane platelet population growth positively charged prediction preserve proportion protozoa pumice radiation radioactive waste ray reestive recycling reflection 	 refraction region renewable renewable energy renewable energy renewable energy renewable resource replacement reservoir resource rift valley S.I. system salinity satellite saturation point scale (tool) sea floor sea floor seamount spectroscope sponge stamen stigma stress sublimate submerge symbol synthesize taxonomy tectonic plate test tidal forces tide action trace elements 	 trait transmission trench tube ultraviolet undisturbed vacuum valence valley vein vertical virus visible spectrum warm front watt wave action wavelength white blood cell white blood cell white dwarf yeast seawater section selective breeding sex shale shallow-water zone single-celled smoking solubility point

RIT SCORE	SCIENCE, GENERAL		Y	
RANGE 221-230	 (plant) cell wall abiotic factor acid rain active transport additive adrenalin algal bloom alternating circuit 	 conservation of mass conserve constitute convect convergent plate boundary corrosion cosmic rays 	 gravitational field guard cell Halley's Comet high holdfast hormone hydroelectric power inherited 	 parathormone Pasteur pH phenotype phosphate phosphorous phototropism plains plant matter
	 alternative energy source altitude amino acid amoeba amplitude appendix aquifer artificial 	 cover crop cumulus Darwin DDT deletion delta diffusion divergent plate boundary Dmitri Mendeleev 	 inorganic insulin intensity inversion ionic iron filings kilogram kingdom Leeuwenhoek 	 plant matter plasmodium plastid prehistoric product protein synthesis protist pseudopod radiate rainforest
	selection asteroid belt • bacteria of decay • biologist • blood sugar level • brain • breccia • breeder • carbohydrate • catalyst • cellular respiration	 effect electric electrical field embed energy releasing process erupt estrogen extrusive family fault zone fermentation 	 Linnaeus lipids location locomotion lowland lubricate metal plate metallic methane Milky Way milliliter mineral content 	 random rate of entry reactant reaction force reactor site reduction division rock face runoff San Andreas fault sandstone Schwann
	 cellular structure centrifugal force charge charged particle chitin cilia class class (taxonomy) classification system competition conduction 	 flagella flatworm flow follicle- stimulating hormone fracture fuel gene frequency gene pool genus gold 	 mineral content moisture mudstone multiplication natural selection negative neutralize nimbus nuclear energy nuclear fission nuclear reaction nuclear reactor nucleic acid 	 seashell second separate settle shore sift sodium chloride solar power specialization specimen star cluster starch starch
	 conjugation conservation biologist 	 graduated cylinder grams grassland 	 nucleic acid oceanic crust oil deposit pancreas 	 stimulus stinging cell stomate stored energy

RIT SCORE RANGE	SCIENCE, GENERAL SCIENCE VOCABULARY			
221-230 continued	 stratus streak (test) subdivision subduction boundary subsoil 	 substitution substratum surface wind survival symmetrical 	 thunderhead tidal power transfer translocation transportation 	 tundra vestigial structure volcanic action xylem
231-240	 axon basic climate condition climax coelenterata conglomerate daughter cell decibel deep-sea trench divide ebb tide 	 electrochemical impulse evacuate (container) flood tide genetic structure geotropism germination hertz high pressure system 	 high tide joule liverfluke loudness low tide maturation nematoda neuron neurotransmitter overtone 	 phagocytosis phenolphthalein pinocytosis pioneer (plant) platyhelminthes Richter scale sequence siltstone synapse