

**MIDDLE SCHOOL MATH CURRICULUM MATERIALS FOR HANDHELDS
SCOPE AND SEQUENCE**

The following software is required for this curriculum:

- Mobipocket (available free of charge)
- Kinoma player (available free of charge)
- Quizzler (available free of charge; purchase of instructor bundle recommended, but not required)
- Documents to Go
- Dropairs (available free of charge)
- Inspiration (optional; used in word problem unit)

Samples are available at www.k12handhelds.com/demo.

Unit	File set	File name	Description/ program	Content covered
Decimals	Decimals	decimals_ebook.prc	Decimals ebook (MobiPocket)	<ul style="list-style-type: none"> • Multiplying decimals • Dividing decimals • Converting fractions to decimals • Converting percents to decimals and decimals to percents
	v-Decimals-1	Multiplying_Decimals_video.pdb	Multiplying Decimals video (Kinoma)	<ul style="list-style-type: none"> • Multiplying decimals
	v-Decimals-2	Dividing_Decimals_video.pdb	Dividing Decimals video (Kinoma)	<ul style="list-style-type: none"> • Dividing decimals
	Decimals	Decimals-1 quiz.pdb	Decimals-1 quiz (Quizzler)	<ul style="list-style-type: none"> • Multiplying decimals
	Decimals	Decimals-2 quiz.pdb	Decimals-2 quiz (Quizzler)	<ul style="list-style-type: none"> • Dividing decimals
	Decimals	Decimals-3 quiz.pdb Decimals-3 quiz_P.pdb	Decimals-3 quiz (Quizzler)	<ul style="list-style-type: none"> • Converting fractions to decimals
	Decimals	Decimals-4 quiz.pdb	Decimals-4 quiz (Quizzler)	<ul style="list-style-type: none"> • Converting percents to decimals and decimals to percents
	Decimals	Decimals-5 quiz.pdb Decimals-5 quiz_P.pdb	Decimals-5 quiz (Quizzler)	<ul style="list-style-type: none"> • Mix of multiplying and dividing decimals, converting fractions to decimals, converting percents to decimals, and converting decimals to percents

Factoring and the Distributive Property	Factoring	distributiveproperty_ebook.prc	Distributive Property (MobiPocket)	<ul style="list-style-type: none"> • Common factors • Distributive property • Greatest common factor (GCF)
	v-Factoring	Factoring_Distrib_Prop_video.pdb	Factoring + Distributive Property video (Kinoma)	<ul style="list-style-type: none"> • Common factors • Factoring using the distributive property
	Factoring	GCF quiz.pdb	GCF quiz (Quizzler)	<ul style="list-style-type: none"> • Greatest common factors in expressions with variables
	Factoring	Distributive Property quiz.pdb	Distributive Property quiz (Quizzler)	<ul style="list-style-type: none"> • Factoring using the distributive property
Tables of Values	Tables of Values	tablesofvalues_ebook.prc	Tables of Values ebook (MobiPocket)	<ul style="list-style-type: none"> • Substituting a value of x into a simple equation and solving for y • Completing a table of values • Finding a formula for a given table of values
	v-Tables-1	Tables_of_Value s-1_video.pdb	Tables of Values-Part 1 video (Kinoma)	<ul style="list-style-type: none"> • Substituting a value of x into a simple equation and solving for y
	v-Tables-2	Tables_of_Value s-2_video.pdb	Tables of Values-Part 2 video (Kinoma)	<ul style="list-style-type: none"> • Completing a table of values
	v-Tables-3	Tables_of_Value s-3_video.pdb	Tables of Values-Part 3 video (Kinoma)	<ul style="list-style-type: none"> • Finding a formula for a given table of values
	Tables of Values	Tables of Values-1-DTG.PDB	Table of Values-1-DTG (Documents to Go)	<ul style="list-style-type: none"> • Substituting a value of x into a simple equation and solving for y
	Tables of Values	Tables of Values-2-DTG.PDB	Table of Values-2-DTG (Documents to Go)	<ul style="list-style-type: none"> • Completing a table of values
	Tables of Values	Tables of Values-3-DTG.PDB	Table of Values-3-DTG (Documents to Go)	<ul style="list-style-type: none"> • Finding a formula for a given table of values
	Tables of Values	Table of Values-1_quiz.pdb	Table of Values-1 quiz (Quizzer * requires Quizzler 5)	<ul style="list-style-type: none"> • Substituting a value of x into a simple equation and solving for y

	Tables of Values	Table of Values-2_quiz.pdb Table of Values-2_quiz_P.pdb	Table of Values-2 quiz (Quizzer * requires Quizzler 5)	<ul style="list-style-type: none"> Completing a table of values
	Tables of Values	Table of Values-3_quiz.pdb Table of Values-3_quiz_P.pdb	Table of Values-3 quiz (Quizzer * requires Quizzler 5)	<ul style="list-style-type: none"> Finding a formula for a given table of values
Coordinate Planes	Coordinate Planes	coordinateplanes_ebook.prc	Coordinate Planes ebook (MobiPocket)	<ul style="list-style-type: none"> Understanding the parts of the coordinate plane Identifying quadrants Plotting ordered pairs
	v-Coordinate Planes	Coordinate_Planes_video.pdb	Coordinate Planes video (Kinoma)	<ul style="list-style-type: none"> Plotting ordered pairs
	Coordinate Planes	plot1.jpg – plot10.jpg plot1.pdb – plot10.pdb	Plot1 – Plot 10 (jpgs for Media)	<ul style="list-style-type: none"> Plotting ordered pairs
	Coordinate Planes	Coordinate Planes quiz.pdb Coordinate Planes quiz_P.pdb	Coordinate Planes quiz (Quizzer * requires Quizzler 5)	<ul style="list-style-type: none"> Identifying quadrants Plotting ordered pairs
Integers	Integers	integers_ebook.prc	Integers ebook (MobiPocket)	<ul style="list-style-type: none"> Positive and negative numbers Opposite numbers Absolute values Comparing positive and negative integers and absolute values Adding, subtracting, multiplying, and dividing positive and negative integers
	v-Integers	Integers_video.pdb	Integers video (Kinoma)	<ul style="list-style-type: none"> Absolute values Adding, subtracting, multiplying, and dividing positive and negative integers
	Integers	Integers-1 quiz.pdb	Integers 1 quiz (Quizzler)	<ul style="list-style-type: none"> Comparing positive and negative integers and absolute values ($>$, $<$, $=$)

	Integers	Integers-3 quiz.pdb	Integers 2 quiz (Quizzler)	<ul style="list-style-type: none"> • Adding positive and negative integers
	Integers	Integers-3 quiz.pdb	Integers 3 quiz (Quizzler)	<ul style="list-style-type: none"> • Subtracting positive and negative integers
	Integers	Integers-4 quiz.pdb	Integers 4 quiz (Quizzler)	<ul style="list-style-type: none"> • Adding and subtracting positive and negative integers
	Integers	Integers-5 quiz.pdb	Integers 5 quiz (Quizzler)	<ul style="list-style-type: none"> • Multiplying positive and negative integers
	Integers	Integers-6 quiz.pdb	Integers 6 quiz (Quizzler)	<ul style="list-style-type: none"> • Dividing positive and negative integers
	Integers	Integers-7 quiz.pdb	Integers 7 quiz (Quizzler)	<ul style="list-style-type: none"> • Multiplying and dividing positive and negative integers
	Integers	Integers-8 quiz.pdb	Integers 8 quiz (Quizzler)	<ul style="list-style-type: none"> • Adding, subtracting, multiplying, and dividing positive and negative integers
Word problems	Word problems	wordproblems_ebook.prc	Word problems ebook (MobiPocket)	<ul style="list-style-type: none"> • Steps to solve a word problem • Hints for which words indicate specific math operations • Ignoring extraneous information • Samples and solving problems
	Word problems	k12handhelds_m00.pdb	Math expressions (Dropairs)	<ul style="list-style-type: none"> • Matching basic short expressions in words with the mathematical equivalents
	Word problems	Word_problems-1-ins_ihf.PDB	Word problems-1-ins (Inspiration template)	<ul style="list-style-type: none"> • Matching very basic short expressions in words with numbers
	Word problems	Word_problems-2-ins_ihf.PDB	Word problems-2-ins (Inspiration template)	<ul style="list-style-type: none"> • Reading word problems and then dragging given symbols into the correct order to make the equation
	Word problems	Word_problems-3-ins_ihf.PDB	Word problems-3-ins (Inspiration template)	<ul style="list-style-type: none"> • Reading word problems and then dragging given symbols into the correct order to make the equation (more advanced)

	Word problems	Word Problems-1 quiz.pdb	Word problems 1 quiz (Quizzler)	<ul style="list-style-type: none"> Translating very basic short expressions in words into numbers (e.g. “five more than a number)
	Word problems	Word Problems-2 quiz.pdb	Word problems 2 quiz (Quizzler)	<ul style="list-style-type: none"> Translating short basic equations in words into numbers (e.g. “100 less than a number is 214.”)
	Word problems	Word Problems-3 quiz.pdb	Word problems 3 quiz (Quizzler)	<ul style="list-style-type: none"> Translating word problems into number equations (“If the shop gets three more flavors of ice cream, they’ll have a total of 100.”)
Geometry	Geometry	geometry_ebook.prc	Geometry ebook (Mobipocket)	<ul style="list-style-type: none"> Various kinds of angles and their relationships Transformations of figures
	v-Geometry	Angles_video.pdb	Angles video (Kinoma)	<ul style="list-style-type: none"> Angles and their relationships in with a transversal crossing two parallel lines
	Geometry	msmath_angles_dp.pdb	Angles (Dropairs)	<ul style="list-style-type: none"> Identifying types of angles, transformations, and other geometry figures
	Geometry	Geometry quiz.pdb Geometry quiz_P.pdb	Geometry quiz (Quizzer * requires Quizzler 5)	<ul style="list-style-type: none"> Identifying types of angles, sizes of angles, and types of transformations
Exponents and Scientific Notation	Exponents	exponents_ebook.prc	Exponents ebook (MobiPocket)	<ul style="list-style-type: none"> Basics of exponents Rule of exponents, including multiplying and dividing with the same base Scientific notation
	v-Exponents	Exponents_video.pdb	Exponents video (Kinoma)	<ul style="list-style-type: none"> Multiplying and dividing exponents with the same base

	Exponents	Exponents-1 quiz.pdb Exponents-1 quiz_P.pdb	Exponents-1 quiz	<ul style="list-style-type: none"> Basics of exponents
	Exponents	Exponents-2 quiz.pdb Exponents-2 quiz_P.pdb	Exponents-2 quiz	<ul style="list-style-type: none"> Multiplying exponents with the same base
	Exponents	Exponents-3 quiz.pdb Exponents-3 quiz_P.pdb	Exponents-3 quiz	<ul style="list-style-type: none"> Dividing exponents with the same base
	Exponents	Exponents-4 quiz.pdb Exponents-4 quiz_P.pdb	Exponents-4 quiz	<ul style="list-style-type: none"> Scientific notation
	Exponents	Exponents-5 quiz.pdb Exponents-5 quiz_P.pdb	Exponents-5 quiz	<ul style="list-style-type: none"> Combination of all of the above concepts in exponents and scientific notation
Algebra	Algebra	algebra_ebook.prc	Algebra ebook (Mobipocket)	<ul style="list-style-type: none"> Adding and subtracting simple equations (monomials) Multiplying and dividing simple equations (monomials) Two-step equations Adding and subtracting with multiple terms (polynomials) Multiplying and dividing more complex equations (monomials and binomials) Factoring trinomials
	v- Algebra-1	Algebra-1_video.pdb	Algebra – Part 1 video (Kinoma)	<ul style="list-style-type: none"> Solving simple equations
	v- Algebra-2	Algebra-2_video.pdb	Algebra – Part 2 video (Kinoma)	<ul style="list-style-type: none"> Two-step equations
	v- Algebra-3	Algebra-3_video.pdb	Algebra – Part 3 video (Kinoma)	<ul style="list-style-type: none"> More complex equations (multiple terms)

	v- Algebra-4	Algebra-4_video.pdb	Algebra – Part 4 video (Kinoma)	<ul style="list-style-type: none"> Factoring trinomials
	Algebra	Algebra-1 quiz.pdb	Algebra quiz 1 (Quizzler)	<ul style="list-style-type: none"> Solving simple equations
	Algebra	Algebra-2 quiz.pdb Algebra-2 quiz_P.pdb	Algebra quiz 2 (Quizzler)	<ul style="list-style-type: none"> Two-step equations
	Algebra	Algebra-3 quiz.pdb	Algebra quiz 3 (Quizzler)	<ul style="list-style-type: none"> More complex equations (multiple terms)
	Algebra	Algebra-4 quiz.pdb	Algebra quiz 4 (Quizzler)	<ul style="list-style-type: none"> FOIL and Factoring trinomials
	Algebra	Algebra-5 quiz.pdb	Algebra quiz 5 (Quizzler)	<ul style="list-style-type: none"> Mix of various types of equations, FOIL and factoring
	Algebra	msmath_algebra_dp.pdb	Algebra (Dropairs)	<ul style="list-style-type: none"> Matching short algebraic equations with their answer (e.g. $3x=9$ and $x=3$)
Ratios, percents, and proportions	Ratios	ratios_ebook.prc	Ratios ebook (MobiPocket)	<ul style="list-style-type: none"> Writing ratios in multiple formats Simplifying ratios Proportions, the rule of proportions, and cross multiplication Percents and converting percents to proportions Word problems with ratios, proportions, and percents (including discounts)
	v-Ratios	Proportions_video.pdb	Proportions video (Kinoma)	<ul style="list-style-type: none"> Proportions, the rule of proportions, and cross multiplication
	Ratios	Ratios-1 quiz.pdb Ratios-1 quiz_P.pdb	Ratios-1 quiz (Quizzler *requires Quizzler 5)	<ul style="list-style-type: none"> Writing ratios in multiple formats Simplifying ratios
	Ratios	Ratios-2 quiz.pdb Ratios-2 quiz_P.pdb	Ratios-2 quiz (Quizzler *requires Quizzler 5)	<ul style="list-style-type: none"> Proportions, the rule of proportions, and cross multiplication Percents and converting percents to proportions

	Ratios	Ratios-3 quiz.pdb	Ratios-3 quiz (Quizzler)	<ul style="list-style-type: none"> • Word problems with ratios, proportions, and percents (including discounts)
Data, statistics, and probability	Statistics	statistics_ebook.prc	Statistics ebook (Mobipocket)	<ul style="list-style-type: none"> • Frequency tables, bar graphs, and pie charts • Measures of central tendency (mean, median, mode, range) • Probability • Combinations • Permutations
	Statistics	Statistics-1 quiz.pdb Statistics-1 quiz_P.pdb	Statistics-1 quiz (Quizzler * requires Quizzler 5)	<ul style="list-style-type: none"> • Frequency tables, bar graphs, and pie charts • Interpreting data in graphs
	Statistics	Statistics-2 quiz.pdb	Statistics-2 quiz (Quizzler)	<ul style="list-style-type: none"> • Measures of central tendency (mean, median, mode, range)
	Statistics	Statistics-3 quiz.pdb	Statistics-3 quiz (Quizzler)	<ul style="list-style-type: none"> • Probability, combinations, and permutations
	Statistics	Statistics-4 quiz.pdb Statistics-4 quiz_P.pdb	Statistics-4 quiz (Quizzler * requires Quizzler 5)	<ul style="list-style-type: none"> • Combination of all of the above concepts in statistics