



Symphony Math[®] Correlation

Georgia Performance Standards -- Mathematics

Georgia Performance Standards -- Mathematics				Symphony Math		
Grade	Topic	#	Standard	Module	Activity	Levels
K	Numbers & Operations	MKN1b	Produce models for number words through ten.	Quantity	Manipulatives & Symbols	1
K	Numbers & Operations	MKN1c	Write numerals through 20 to label sets.	Addition & Subtraction	Manipulatives	1-11
K	Numbers & Operations	MKN1e	Compare two or more sets of objects (1-10) and identify which set is equal to, more than, or less than the other.	Quantity	Manipulatives	1-3
K	Numbers & Operations	MKN1g	Use informal strategies to share objects equally (divide) between two to three people or sets.	Multiplication & Division	Manipulatives	5
K	Numbers & Operations	MKN2a	Use counting strategies to find out how many items are in two sets when they are combined, separated, or compared.	Addition & Subtraction	Manipulatives	1-3
K	Numbers & Operations	MKN2b	Build number combinations up to 10 (e.g., 4 and 1, 2 and 3, 3 and 2, 4 and 1 for five) and for doubles to 10 (3 and 3 for six).	Addition & Subtraction	Symbols	7
K	Numbers & Operations	MKN2c	Use objects, pictures, numbers or words to create, solve and explain story problems (combining, separating, or comparing) for two numbers that are less than 10.	Addition & Subtraction	World Problems	1-11
K	Measurement	MKM1a	Compare and order objects on the basis of length.	Addition & Subtraction	Manipulatives	1-3
K	Measurement	MKM1b	Compare and order objects on the basis of capacity.	Place Value	Manipulatives	12
K	Measurement	MKM1c	Compare and order objects on the basis of height.	Quantity	Manipulatives	1-3
K	Process Standards	MKP1a	Build new mathematical knowledge through problem solving.	Quantity	All	1-6

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Grade	Strand	#	Standard	Module	Activity	Levels
K	Process Standards	MKP1b	Solve problems that arise in mathematics and in other contexts.	Quantity	Word Problems	1-6
K	Process Standards	MKP1c	Apply and adapt a variety of appropriate strategies to solve problems.	Quantity	All	1-6
K	Process Standards	MKP1d	Monitor and reflect on the process of mathematical problem solving.	Quantity	All	1-6
K	Process Standards	MKP2a	Recognize reasoning and proof as fundamental aspects of mathematics.	Quantity	All	1-6
K	Process Standards	MKP2b	Make and investigate mathematical conjectures.	Quantity	All	1-6
K	Process Standards	MKP2c	Develop and evaluate mathematical arguments and proofs.	Quantity	All	1-6
K	Process Standards	MKP2d	Select and use various types of reasoning and methods of proof.	Quantity	All	1-6
K	Process Standards	MKP3a	Organize and consolidate their mathematical thinking through communication	Quantity	All	1-6
K	Process Standards	MKP3b	Communicate their mathematical thinking coherently and clearly to peers, teachers, and others.	Quantity	All	1-6
K	Process Standards	MKP3c	Analyze and evaluate the mathematical thinking and strategies of others.	Quantity	All	1-6
K	Process Standards	MKP3d	Use the language of mathematics to express mathematical ideas precisely.	Quantity	All	1-6
K	Process Standards	MKP4a	Recognize and use connections among mathematical ideas.	Quantity	All	1-6
K	Process Standards	MKP4b	Understand how mathematical ideas interconnect and build on one another to produce a coherent whole.	Quantity	All	1-6

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Grade	Strand	#	Standard	Module	Activity	Levels
K	Process Standards	MKP4c	Recognize and apply mathematics in contexts outside of mathematics.	Quantity	Word Problems	1-6
K	Process Standards	MKP5a	Create and use representations to organize, record, and communicate mathematical ideas.	Quantity	Manipulatives	1-6
K	Process Standards	MKP5b	Select, apply, and translate among mathematical representations to solve problems.	Quantity	Manipulatives & Symbols	1-6
K	Process Standards	MKP5c	Use representations to model and interpret physical, social, and mathematical phenomena.	Quantity	Word Problems	1-6
1	Numbers & Operations	M1N1a	Represent numbers less than 100 using a variety of models, diagrams, and number sentences. Represent numbers larger than 10 in terms of tens and ones using counters and pictures.	Place Value	Manipulatives	13
1	Numbers & Operations	M1N1b	Correctly count and represent the number of objects in a set using numerals.	Quantity	Manipulatives & Symbols	1-6
1	Numbers & Operations	M1N1c	Compare small sets using the terms greater than, less than, and equal to ($>$, $<$, $=$).	Quantity	Symbols	1-5
1	Numbers & Operations	M1N1d	Understand the magnitude and order of numbers up to 100 by making ordered sequences and representing them on a number line.	Place Value	Symbols	15
1	Numbers & Operations	M1N2b	Represent collections of less than 30 objects with 2-digit numbers and understand the meaning of place value.	Place Value	Manipulatives & Symbols	15
1	Numbers & Operations	M1N2c	Decompose numbers between 11 and 19 as one ten and the appropriate number of ones.	Addition & Subtraction	Symbols	1-19
1	Numbers & Operations	M1N3a	Identify one more than, one less than, 10 more than, and 10 less than a given number.	Addition & Subtraction	Symbols	1-19
1	Numbers & Operations	M1N3c	Compose/decompose numbers up to 10 -- "break numbers apart", e.g. 8 is represented as $4+4$, $3+5$, $5+2+1$, and $10-2$).	Place Value	Symbols	1-3

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Grade	Strand	#	Standard	Module	Activity	Levels
1	Numbers & Operations	M1N3f	Know the single-digit addition facts up to 18 and corresponding subtraction facts with understanding and fluency. (Use strategies such as relating to facts already known, applying the commutative property, and grouping facts into families.	Addition & Subtraction	Symbols	1-19
1	Numbers & Operations	M1N3g	Apply addition and subtraction to 2 digit numbers without regrouping (e.g. $15 + 4$, $80 - 60$, $56 + 10$, $100 - 30$, $52 + 5$).	Multi-Digit Addition & Subtraction	Symbols	9-12
1	Numbers & Operations	M1N3h	Solve and create word problems involving addition and subtraction to 100 without regrouping. Use words, pictures and concrete models to interpret story problems and reflect the combining of sets as addition and taking away or comparing elements of sets as subtraction.	Multi-Digit Addition & Subtraction	Story Problems	9-12
1	Number & Operations	M1N4a	Use informal strategies to share objects equally between two to five people.	Fractions	Manipulatives	1-4
1	Number & Operations	M1N4c	Identify, label and relate fractions (halves, fourths) as equal parts of a whole using pictures and models.	Fractions	Manipulatives & Symbols	1-4
1	Process Standards	M1P1a	Build new mathematical knowledge through problem solving.	Addition & Subtraction	All	1-19
1	Process Standards	M1P1b	Solve problems that arise in mathematics and in other contexts.	Addition & Subtraction	Word Problems	1-19
1	Process Standards	M1P1c	Apply and adapt a variety of appropriate strategies to solve problems.	Addition & Subtraction	All	1-19
1	Process Standards	M1P1d	Monitor and reflect on the process of mathematical problem solving.	Addition & Subtraction	All	1-19
1	Process Standards	M1P2a	Recognize reasoning and proof as fundamental aspects of mathematics.	Addition & Subtraction	All	1-19
1	Process Standards	M1P2b	Make and investigate mathematical conjectures.	Addition & Subtraction	All	1-19

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Grade	Strand	#	Standard	Module	Activity	Levels
1	Process Standards	M1P2c	Develop and evaluate mathematical arguments and proofs.	Addition & Subtraction	All	1-19
1	Process Standards	M1P2d	Select and use various types of reasoning and methods of proof.	Addition & Subtraction	All	1-19
1	Process Standards	M1P3a	Organize and consolidate their mathematical thinking through communication	Addition & Subtraction	All	1-19
1	Process Standards	M1P3b	Communicate their mathematical thinking coherently and clearly to peers, teachers, and others.	Addition & Subtraction	All	1-19
1	Process Standards	M1P3c	Analyze and evaluate the mathematical thinking and strategies of others.	Addition & Subtraction	All	1-19
1	Process Standards	M1P3d	Use the language of mathematics to express mathematical ideas precisely.	Addition & Subtraction	All	1-19
1	Process Standards	M1P4a	Recognize and use connections among mathematical ideas.	Addition & Subtraction	All	1-19
1	Process Standards	M1P4b	Understand how mathematical ideas interconnect and build on one another to produce a coherent whole.	Addition & Subtraction	All	1-19
1	Process Standards	M1P4c	Recognize and apply mathematics in contexts outside of mathematics.	Addition & Subtraction	All	1-19
1	Process Standards	M1P5a	Create and use representations to organize, record, and communicate mathematical ideas.	Addition & Subtraction	All	1-19
1	Process Standards	M1P5b	Select, apply, and translate among mathematical representations to solve problems.	Addition & Subtraction	All	1-19
1	Process Standards	M1P5c	Use representations to model and interpret physical, social, and mathematical phenomena.	Addition & Subtraction	All	1-19

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Grade	Strand	#	Standard	Module	Activity	Levels
2	Numbers & Operations	M2N1a	Represent numbers using a variety of models, diagrams, and number sentences (e.g., 4703 represented as $4,000 + 700 + 3$ and units, 47 hundreds + 3, or $4,500 + 203$).	Place Value	All	1-18
2	Numbers & Operations	M2N1b	Understand the relative magnitudes of numbers using 10 as a unit, 100 as a unit, or 1000 as a unit. Represent 2-digit numbers with drawings of tens and ones and 3-digit numbers with drawings of hundreds, tens, and ones.	Place Value	Manipulatives & Symbols	1-18
2	Numbers & Operations	M2N2a	Correctly add and subtract two whole numbers up to three digits each with regrouping.	Multi-Digit Addition & Subtraction	Symbols	1-24
2	Numbers & Operations	M2N2c	Use mental math strategies such as benchmark numbers to solve problems.	Multi-Digit Addition & Subtraction	Symbols	1-24
2	Numbers & Operations	M2N3a	Understand multiplication as repeated addition.	Multiplication & Division	Manipulatives	1
2	Numbers & Operations	M2N3d	Use repeated subtraction, equal sharing, and forming equal groups to divide large collections of objects and determine factors for multiplication.	Multiplication & Division	Symbols	1-14
2	Numbers & Operations	M2N4a	Model, identify, label, and compare fractions (thirds, sixths, eighths, tenths as a representation of equal parts of a whole or of a set.	Fractions	All	1-12
2	Numbers & Operations	M2N4b	Know that when all fractional parts are included, such as three thirds, the result is equal to the whole.	Fractions	All	1-12
2	Numbers & Operations	M2N5a	Include the use of boxes or ___ to represent a missing value.	Addition & Subtraction	Symbols	1-19
				Multiplication & Division	Symbols	1-14
2	Numbers & Operations	M2N5b	Represent problem solving situations where addition, subtraction or multiplication may be applied using mathematical expressions.	Addition & Subtraction	Symbols	1-19
				Multiplication & Division	Symbols	1-14
2	Process Standards	M2P1a	Build new mathematical knowledge through problem solving.	Place Value	All	1-18
2	Process Standards	M2P1b	Solve problems that arise in mathematics and in other contexts.	Place Value	Word Problems	1-18

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Grade	Strand	#	Standard	Module	Activity	Levels
2	Process Standards	M2P1c	Apply and adapt a variety of appropriate strategies to solve problems.	Place Value	All	1-18
2	Process Standards	M2P1d	Monitor and reflect on the process of mathematical problem solving.	Place Value	All	1-18
2	Process Standards	M2P2a	Recognize reasoning and proof as fundamental aspects of mathematics.	Place Value	All	1-18
2	Process Standards	M2P2b	Make and investigate mathematical conjectures.	Place Value	All	1-18
2	Process Standards	M2P2c	Develop and evaluate mathematical arguments and proofs.	Place Value	All	1-18
2	Process Standards	M2P2d	Select and use various types of reasoning and methods of proof.	Place Value	All	1-18
2	Process Standards	M2P3a	Organize and consolidate their mathematical thinking through communication.	Place Value	All	1-18
2	Process Standards	M2P3b	Communicate their mathematical thinking coherently and clearly to peers, teachers, and others.	Place Value	All	1-18
2	Process Standards	M2P3c	Analyze and evaluate the mathematical thinking and strategies of others.	Place Value	All	1-18
2	Process Standards	M2P3d	Use the language of mathematics to express mathematical ideas precisely.	Place Value	All	1-18
2	Process Standards	M2P4a	Recognize and use connections among mathematical ideas.	Place Value	All	1-18
2	Process Standards	M2P4b	Understand how mathematical ideas interconnect and build on one another to produce a coherent whole.	Place Value	All	1-18
2	Process Standards	M2P4c	Analyze and evaluate the mathematical thinking and strategies of others.	Place Value	All	1-18

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2	Process Standards	M2P5a	Create and use representations to organize, record, and communicate mathematical ideas.	Place Value	All	1-18
2	Process Standards	M2P5b	Select, apply, and translate among mathematical representations to solve problems.	Place Value	All	1-18
2	Process Standards	M2P5c	Use representations to model and interpret physical, social, and mathematical phenomena.	Place Value	All	1-18
3	Number & Operations	M3N2a	Use the properties of addition and subtraction to compute and verify the results of computation.	Multi-Digit Addition & Subtraction	Symbols	1-24
3	Number & Operations	M3N2b	Use mental math and estimation strategies to add and subtract.	Multi-Digit Addition & Subtraction	Symbols	1-24
3	Number & Operations	M3N2c	Solve problems requiring addition and subtraction.	Multi-Digit Addition & Subtraction	Story Problems	1-24
3	Number & Operations	M3N3f	Use mental math and estimation strategies to multiply.	Multiplication & Division	Symbols	1,8
3	Number & Operations	M3N3g	Solve problems requiring multiplication.	Multiplication & Division	Word Problems	1,8
3	Number & Operations	M3N4a	Understand the relationship between division and multiplication and between division and subtraction.	Multiplication & Division	Manipulatives	6,13
3	Number & Operations	M3N4c	Recognize problem-solving situations in which division may be applied and write corresponding mathematical expressions.	Multiplication & Division	Manipulatives & Symbols	4,11
3	Number & Operations	M3N4f	Solve problems requiring division.	Multiplication & Division	Word Problems	4,11
3	Number & Operations	M3N5b	Understand the fraction a/b represents a equal sized parts of a whole that is divided into b equal sized parts.	Fractions	All	All
3	Number & Operations	M3N5d	Know and use decimal fractions and common fractions to represent the size of parts created by equal divisions of a whole.	Fractions	All	All

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Grade	Strand	#	Standard	Module	Activity	Levels
3	Number & Operations	M3N5g	Solve problems involving fractions.	Fractions	All	All
3	Number & Operations	M3A1c	Use a symbol, such as a \square and a Δ , to represent an unknown and find the value of the unknown in a number sentence.	Multiplication & Division	Symbols	1-14
3	Process Standards	M3P1a	Build new mathematical knowledge through problem solving.	Multiplication & Division	All	1-14
3	Process Standards	M3P1b	Solve problems that arise in mathematics and in other contexts.	Multiplication & Division	Word Problems	1-14
3	Process Standards	M3P1c	Apply and adapt a variety of appropriate strategies to solve problems.	Multiplication & Division	All	1-14
3	Process Standards	M3P1d	Monitor and reflect on the process of mathematical problem solving.	Multiplication & Division	All	1-14
3	Process Standards	M3P2a	Recognize reasoning and proof as fundamental aspects of mathematics.	Multiplication & Division	All	1-14
3	Process Standards	M3P2b	Make and investigate mathematical conjectures.	Multiplication & Division	All	1-14
3	Process Standards	M3P2c	Develop and evaluate mathematical arguments and proofs.	Multiplication & Division	All	1-14
3	Process Standards	M3P2d	Select and use various types of reasoning and methods of proof.	Multiplication & Division	All	1-14
3	Process Standards	M3P3a	Organize and consolidate their mathematical thinking through communication.	Multiplication & Division	All	1-14
3	Process Standards	M3P3b	Communicate their mathematical thinking coherently and clearly to peers, teachers, and others.	Multiplication & Division	All	1-14
3	Process Standards	M3P3c	Analyze and evaluate the mathematical thinking and strategies of others.	Multiplication & Division	All	1-14

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3	Process Standards	M3P3d	Use the language of mathematics to express mathematical ideas precisely.	Multiplication & Division	All	1-14
3	Process Standards	M3P4a	Recognize and use connections among mathematical ideas.	Multiplication & Division	All	1-14
3	Process Standards	M3P4b	Understand how mathematical ideas interconnect and build on one another to produce a coherent whole.	Multiplication & Division	All	1-14
3	Process Standards	M3P4c	Analyze and evaluate the mathematical thinking and strategies of others.	Multiplication & Division	All	1-14
3	Process Standards	M3P5a	Create and use representations to organize, record, and communicate mathematical ideas.	Multiplication & Division	All	1-14
3	Process Standards	M3P5b	Select, apply, and translate among mathematical representations to solve problems.	Multiplication & Division	All	1-14
3	Process Standards	M3P5c	Use representations to model and interpret physical, social, and mathematical phenomena.	Multiplication & Division	All	1-14