

CURRICULUM MAP FOR GRADE K

(Suggested timeline for introducing content and process standards - some overlap all four quarters)

GLEs NCTM Standards	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
1. Numbers Sense and Operations (content)	<ul style="list-style-type: none"> • Whole Numbers 1.1.1 • One-to-one correspondence 1.2.1 • Compare numbers 1.2.1 • Mental Calculations 1.5.1 <p style="color: red; text-align: center;">Required problems</p>	<ul style="list-style-type: none"> • Whole Numbers 1.1.1 • One-to-one correspondence 1.2.1 • Compare numbers 1.2.1 • Mental Calculations 1.5.1 • Written numerals 1.2.1 • Addition 1.3.1 (number stories) • Money 1.4.1 <p style="color: red; text-align: center;">Required problems</p> <ul style="list-style-type: none"> • Pumpkins #3 • Turkeys #4 	<ul style="list-style-type: none"> • Whole Numbers 1.1.1 • One-to-one correspondence 1.2.1 • Compare numbers 1.2.1 • Mental Calculations 1.5.1 • Written numerals 1.2.1 • Addition 1.3.1 (number stories) • Money 1.4.1 • Subtraction (number stories) 1.3.1 • Estimation 1.6.1 <p style="color: red; text-align: center;">Required problems</p>	<ul style="list-style-type: none"> • Whole Numbers 1.1.1 • One-to-one correspondence 1.2.1 • Compare numbers 1.2.1 • Mental Calculations 1.5.1 • Written numerals 1.2.1 • Addition 1.3.1 (number stories) • Money 1.4.1 • Subtraction (number stories) 1.3.1 • Estimation 1.6.1 • Fractions <p style="color: red; text-align: center;">Required problems</p> <ul style="list-style-type: none"> • Cupcakes #1 • Pizza for Two #2 • M & M's #5
2. Geometry and Measurement (content)	<ul style="list-style-type: none"> • Sort and Classify Polygons 2.1.1 • Names shapes 2.1.2 • Measurement 2.4.1 • Time (calendar) 2.4.3 • Spatial Relations 2.5.2 	<ul style="list-style-type: none"> • Sort and Classify Polygons 2.1.1 • Names shapes 2.1.2 • Measurement 2.4.1 • Time (calendar) 2.4.3 • Spatial Relations 2.5.2 • Symmetry 2.2.1 	<ul style="list-style-type: none"> • Sort and Classify Polygons 2.1.1 • Names shapes 2.1.2 • Measurement 2.4.1 • Time (calendar) 2.4.3 • Spatial Relations 2.5.2 • Symmetry 2.2.1 • Compose and decompose 	<ul style="list-style-type: none"> • Sort and Classify Polygons 2.1.1 • Names shapes 2.1.2 • Measurement 2.4.1 • Time (calendar) 2.4.3 • Spatial Relations 2.5.2 • Symmetry 2.2.1 • Compose and decompose

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	<p>Required problem</p> <ul style="list-style-type: none"> • Sorting with Blocks #6 	<p>Required problems</p> <ul style="list-style-type: none"> • Stairs #8 • Calendar Pattern #12 	<p>2.1.1</p> <ul style="list-style-type: none"> • Time (clock) <p>Required problems</p> <ul style="list-style-type: none"> • Triangles and Shapes #7 • Are You a Square? #10 	<p>2.1.1</p> <ul style="list-style-type: none"> • Time (clock) <p>Required problems</p> <ul style="list-style-type: none"> • Shapes #9 • Rods to Road #11
<p>3. Functions and Algebra (content)</p>	<ul style="list-style-type: none"> • Patterns 3.1.1 <p>Required problem</p> <ul style="list-style-type: none"> • Flowers #13 	<ul style="list-style-type: none"> • Patterns 3.1.1 	<ul style="list-style-type: none"> • Patterns 3.1.1 <p>Required problem</p> <ul style="list-style-type: none"> • Mother's Day #14 	<ul style="list-style-type: none"> • Patterns 3.1.1
<p>4. Data, Statistics, and Probability (content)</p>	<ul style="list-style-type: none"> • Create and interpret graphs 4.1.1 • Compare graphs 4.2.2 • Counting techniques 4.3.1 <p>Required problems</p> <ul style="list-style-type: none"> • Roosters Off to See the World #16 	<ul style="list-style-type: none"> • Create and interpret graphs 4.1.1 • Compare graphs 4.2.2 • Counting techniques 4.3.1 <p>Required problem</p> <ul style="list-style-type: none"> • Weather Watchers #15 	<ul style="list-style-type: none"> • Create and interpret graphs 4.1.1 • Compare graphs 4.2.2 • Counting techniques 4.3.1 <p>Required problem</p> <ul style="list-style-type: none"> • Bulbs in a Bag #17 	<ul style="list-style-type: none"> • Create and interpret graphs 4.1.1 • Compare graphs 4.2.2 • Counting techniques 4.3.1 <p>Required problem</p> <ul style="list-style-type: none"> • Zoo #18

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5. Problem Solving, Reasoning and Proof (process)	<ul style="list-style-type: none"> • Multi-step problems 5.1.1 • Variety of strategies 5.1.2 • Verify and interpret results 5.1.3 • Reasonable solution 5.1.4 • Manipulatives, graphs, charts, diagrams, and calculators 5.1.5 • More than one way 5.1.6 • Independently and in groups 5.1.7 • Perseverance and persistence 5.1.8 • Models, known facts, properties, and relationships 5.2.1 • Solution processes 5.2.2 • Conclusions using inductive reasoning 5.2.3 • Missing information needed to find a solution 5,2,4 • Patterns and relationships 5.2.5 	<ul style="list-style-type: none"> • Multi-step problems 5.1.1 • Variety of strategies 5.1.2 • Verify and interpret results 5.1.3 • Reasonable solution 5.1.4 • Manipulatives, graphs, charts, diagrams, and calculators 5.1.5 • More than one way 5.1.6 • Independently and in groups 5.1.7 • Perseverance and persistence 5.1.8 • Models, known facts, properties, and relationships 5.2.1 • Solution processes 5.2.2 • Conclusions using inductive reasoning 5.2.3 • Missing information needed to find a solution 5,2,4 • Patterns and relationships 5.2.5 	<ul style="list-style-type: none"> • Multi-step problems 5.1.1 • Variety of strategies 5.1.2 • Verify and interpret results 5.1.3 • Reasonable solution 5.1.4 • Manipulatives, graphs, charts, diagrams, and calculators 5.1.5 • More than one way 5.1.6 • Independently and in groups 5.1.7 • Perseverance and persistence 5.1.8 • Models, known facts, properties, and relationships 5.2.1 • Solution processes 5.2.2 • Conclusions using inductive reasoning 5.2.3 • Missing information needed to find a solution 5,2,4 • Patterns and relationships 5.2.5 	<ul style="list-style-type: none"> • Multi-step problems 5.1.1 • Variety of strategies 5.1.2 • Verify and interpret results 5.1.3 • Reasonable solution 5.1.4 • Manipulatives, graphs, charts, diagrams, and calculators 5.1.5 • More than one way 5.1.6 • Independently and in groups 5.1.7 • Perseverance and persistence 5.1.8 • Models, known facts, properties, and relationships 5.2.1 • Solution processes 5.2.2 • Conclusions using inductive reasoning 5.2.3 • Missing information needed to find a solution 5,2,4 • Patterns and relationships 5.2.5
6. Communication, Representation, and connections (process)	<ul style="list-style-type: none"> • Discussion, reading, writing, listening, and responding, 6.1.1 • Everyday language and mathematical language and symbols 6.1.2 • Conclusions, thought processes, and strategies 6.1.3 • Mathematical concepts and relationships 6.1.4 • Pictures and objects to illustrate mathematical 	<ul style="list-style-type: none"> • Discussion, reading, writing, listening, and responding, 6.1.1 • Everyday language and mathematical language and symbols 6.1.2 • Conclusions, thought processes, and strategies 6.1.3 • Mathematical concepts and relationships 6.1.4 • Pictures and objects to illustrate mathematical 	<ul style="list-style-type: none"> • Discussion, reading, writing, listening, and responding, 6.1.1 • Everyday language and mathematical language and symbols 6.1.2 • Conclusions, thought processes, and strategies 6.1.3 • Mathematical concepts and relationships 6.1.4 • Pictures and objects to illustrate mathematical 	<ul style="list-style-type: none"> • Discussion, reading, writing, listening, and responding, 6.1.1 • Everyday language and mathematical language and symbols 6.1.2 • Conclusions, thought processes, and strategies 6.1.3 • Mathematical concepts and relationships 6.1.4 • Pictures and objects to illustrate mathematical

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	<ul style="list-style-type: none"> concepts 6.1.5 • Age-level appropriate representations 6.2.1 • Mathematical representations 6.2.2 • Conventional and self-generated representations 6.2.4 • Multiple interpretations • Mathematics in other curriculum areas 6.3.2 • Mathematics in their daily lives 6.3.3 • Literature 6.3.4 • Nature, art, and architecture 6.3.5 	<ul style="list-style-type: none"> concepts 6.1.5 • Age-level appropriate representations 6.2.1 • Mathematical representations 6.2.2 • Conventional and self-generated representations 6.2.4 • Multiple interpretations • Mathematics in other curriculum areas 6.3.2 • Mathematics in their daily lives 6.3.3 • Literature 6.3.4 • Nature, art, and architecture 6.3.5 	<ul style="list-style-type: none"> concepts 6.1.5 • Age-level appropriate representations 6.2.1 • Mathematical representations 6.2.2 • Conventional and self-generated representations 6.2.4 • Multiple interpretations • Mathematics in other curriculum areas 6.3.2 • Mathematics in their daily lives 6.3.3 • Literature 6.3.4 • Nature, art, and architecture 6.3.5 	<ul style="list-style-type: none"> concepts 6.1.5 • Age-level appropriate representations 6.2.1 • Mathematical representations 6.2.2 • Conventional and self-generated representations 6.2.4 • Multiple interpretations • Mathematics in other curriculum areas 6.3.2 • Mathematics in their daily lives 6.3.3 • Literature 6.3.4 • Nature, art, and architecture 6.3.5