

CURRICULUM MAP FOR GRADE 6

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

GLEs/GSEs 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"> • Mathematical operations 1.3.1 • Order of Operations 1.5.1 <p style="color: red; margin-top: 10px;">Required Problem</p> <ul style="list-style-type: none"> • Lemonade #6 	<ul style="list-style-type: none"> • Mathematical operations 1.3.1 • Order of Operations 1.5.1 • GCF LCM 1.5.1 • Relative magnitude 1.2.1 • Exponents 1.4.1 • Prime Factorization 1.7.1 • Divisibility 1.7.1 <p style="color: red; margin-top: 10px;">Required Problems</p> <ul style="list-style-type: none"> • Number Line #4 • Start to End #5 	<ul style="list-style-type: none"> • Mathematical operations 1.3.1 • Order of Operations 1.5.1 • Rates 1.1.1 • Field Properties 1.7.1 • Exponents 1.4.1 <p style="color: red; margin-top: 10px;">Required Problems</p> <ul style="list-style-type: none"> • Ratios Part-to-part #2 	<ul style="list-style-type: none"> • Mathematical operations 1.3.1 • Order of Operations 1.5.1 • Ratios/rates 1.1.1 • Field Properties 1.7.1 <p style="color: red; margin-top: 10px;">Required Problems</p> <ul style="list-style-type: none"> • Ratios #1 • Ratios: Part-to whole #3
2. Functions and Algebra		<ul style="list-style-type: none"> • Patterns 3.1.1 • Coordinate graph 3.2.1 • Linear relationship 3.2.3 • Slope and y intercept 3.2.2 • Algebraic expressions and equations 3.3.1 • Multi-step Linear Equations 3.4.1 	<ul style="list-style-type: none"> • Patterns 3.1.1 • Coordinate graph 3.2.1 • Linear relationship 3.2.3 • Slope and y intercept 3.2.2 • Algebraic expressions and equations 3.3.1 • Multi-step Linear Equations 3.4.1 <p style="color: red; margin-top: 10px;">Required Problems</p> <ul style="list-style-type: none"> • Patterns #16 • Hiking # 17 	<ul style="list-style-type: none"> • Patterns 3.1.1 • Coordinate graph 3.2.1 • Linear relationship 3.2.3 • Slope and y intercept 3.2.2 • Algebraic expressions and equations 3.3.1 • Multi-step Linear Equations 3.4.1 <p style="color: red; margin-top: 10px;">Required Problem</p> <ul style="list-style-type: none"> • Burning Candle # 18
3. Geometry and Measurement	<ul style="list-style-type: none"> • Area and perimeter 2.5.1 • Measurements 2.6.1 • Conversions 2.6.2 	<ul style="list-style-type: none"> • Area and perimeter 2.5.1 • Measurements 2.6.1 • Conversions 2.6.2 	<ul style="list-style-type: none"> • Area, perimeter, and volume 2.5.1 • Measurements 2.6.1 • Conversions 2.6.2 • 2-D shapes properties and attributes 2.1.1 • 3-D shapes properties and attributes 2.2.1 	<ul style="list-style-type: none"> • Area and perimeter 2.5.1 • Measurements 2.6.1 • Conversions 2.6.2

CURRICULUM MAP FOR GRADE 6

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

GLEs/GSEs NCTM Standards	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
	<p style="color: red;">Required Problem</p> <ul style="list-style-type: none"> • Perimeter #15 <p style="color: red;">Required Problems</p>		<ul style="list-style-type: none"> • Transformations and congruency 2.3.1 • Composition and decomposing 2.3.1 • Similarity/scale factor 2.4.1 <p style="color: red;">Required Problems</p> <ul style="list-style-type: none"> • Investigation Quadrilaterals #7 • Three-dimensional Shapes #8 • Composing and Decomposing Shapes #9 • Translate Figure #10 • The Translation Game #11 	<p style="color: red;">Required Problems</p> <ul style="list-style-type: none"> • Perimeter #12 • Scaling Circumference #13 • Perimeter and Area #14
<p>4. Data, Statistics, and Probability (content)</p>	<ul style="list-style-type: none"> • Graphs 4.1.1-4.3.1 • Landmarks 4.2.1 • Data collection and analysis 4.6.1 • Stem and Leaf 4.1.1 <p style="color: red;">Required Problem</p> <ul style="list-style-type: none"> • Math Test Score #19 	<ul style="list-style-type: none"> • Graphs 4.1.1-4.3.1 • Landmarks 4.2.1 • Data collection and analysis 4.6.1 	<ul style="list-style-type: none"> • Graphs 4.1.1-4.3.1 • Landmarks 4.2.1 • Data collection and analysis 4.6.1 	<ul style="list-style-type: none"> • Graphs 4.1.1-4.3.1 • Landmarks 4.2.1 • Data collection and analysis 4.6.1 • Counting techniques 4.4.1 • Theoretical probability and sample space 4.5.1 <p style="color: red;">Required Problem</p> <ul style="list-style-type: none"> • Bean Bag #20

CURRICULUM MAP FOR GRADE 6

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

GLEs/GSEs NCTM Standards	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
5. Problem Solving, Reasoning and Proof (process)	<ul style="list-style-type: none"> • Problem-solving strategies • Real world problems • Integrated problem-solving strategies • Reflect on solutions and problem solving process • Conclusions and generalizations • Mathematical conjecture and arguments • Argument and validity of mathematical solution • Mathematical reasoning 	<ul style="list-style-type: none"> • Problem-solving strategies • Real world problems • Integrated problem-solving strategies • Reflect on solutions and problem solving process • Conclusions and generalizations • Mathematical conjecture and arguments • Argument and validity of mathematical solution • Mathematical reasoning 	<ul style="list-style-type: none"> • Problem-solving strategies • Real world problems • Integrated problem-solving strategies • Reflect on solutions and problem solving process • Conclusions and generalizations • Mathematical conjecture and arguments • Argument and validity of mathematical solution • Mathematical reasoning 	<ul style="list-style-type: none"> • Problem-solving strategies • Real world problems • Integrated problem-solving strategies • Reflect on solutions and problem solving process • Conclusions and generalizations • Mathematical conjecture and arguments • Argument and validity of mathematical solution • Mathematical reasoning
6. Communication, Representation, and connections (process)	<ul style="list-style-type: none"> • Ideas clearly and logically in both written and oral form. • Mathematical terminology, labels, symbols, and notation • Questions, conjectures, definitions, and generalizations about data, information, and problem situations • Models and technology • Representations • Convert between representations 	<ul style="list-style-type: none"> • Ideas clearly and logically in both written and oral form. • Mathematical terminology, labels, symbols, and notation • Questions, conjectures, definitions, and generalizations about data, information, and problem situations • Models and technology • Representations • Convert between representations 	<ul style="list-style-type: none"> • Ideas clearly and logically in both written and oral form. • Mathematical terminology, labels, symbols, and notation • Questions, conjectures, definitions, and generalizations about data, information, and problem situations • Models and technology • Representations • Convert between representations 	<ul style="list-style-type: none"> • Ideas clearly and logically in both written and oral form. • Mathematical terminology, labels, symbols, and notation • Questions, conjectures, definitions, and generalizations about data, information, and problem situations • Models and technology • Representations • Convert between representations