

CURRICULUM MAP FOR PRE ALGEBRA GRADE 7

(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"> Properties 1.7 <p style="color: red;">Required problems</p> <ul style="list-style-type: none"> Math Fair #1 The Better Airline Deal #2 	<ul style="list-style-type: none"> Relative Magnitude 1.2 Operations 1.3 Solving Problems 1.4 <p style="color: red;">Required problems</p> <ul style="list-style-type: none"> Tangrams #3 Exponent Experience #4 Integers in a Row #5 Pool and Track #6 	<ul style="list-style-type: none"> Relative Magnitude 1.2 	<ul style="list-style-type: none"> Rational numbers 1.1 Proportional reasoning 1.5 Estimates 1.6 <p style="color: red;">Required problems</p> <ul style="list-style-type: none"> Popeye's Pizza #7 Binders #8
2. Geometry and Measurement	<ul style="list-style-type: none"> Spatial Reasoning 2.6 	<ul style="list-style-type: none"> Area of circles 2.5 Perimeter of circles 2.5 Spatial reasoning 2.6 <p style="color: red;">Required problems</p> <ul style="list-style-type: none"> Soccer Field #11 Design Corral #12 Tiling a Floor #13 Cubes #14a 14b Cubic Aquarium #15 	<ul style="list-style-type: none"> Angles Relationships 2.1 Theorem or relationships 2.2 <p style="color: red;">Required problem</p> <ul style="list-style-type: none"> Angle Relationship Task #9 	<ul style="list-style-type: none"> Similarity 2.4 <p style="color: red;">Required problems</p> <ul style="list-style-type: none"> Two Triangles #10 Vegetable Garden #22
3. Functions and Algebra	<ul style="list-style-type: none"> Variety of Patterns 3.1 Algebraic expressions 3.3 <p style="color: red;">Required problems</p> <ul style="list-style-type: none"> Stars #16 T-Shirt #20 	<ul style="list-style-type: none"> Variety of Patterns 3.1 <p style="color: red;">Required problems</p> <ul style="list-style-type: none"> Hexagon #17 	<ul style="list-style-type: none"> Linear relationships 3.2 Equality 3.4 <p style="color: red;">Required problems</p> <ul style="list-style-type: none"> New Bikes #18 Mystery Graphiti #19 	<ul style="list-style-type: none"> Equality 3.4 <p style="color: red;">Required problem</p>

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4. Data, Statistics, and Probability (content)				<ul style="list-style-type: none"> • Interpret graphs 4.1 • Patterns 4.2 • Organize Data 4.3 • Best Display 4.4 • Counting Techniques 4.5 • Probability 4.6 • Probability 4.7 <li style="color: red;">Benchmark problems <ul style="list-style-type: none"> <li style="color: red;">• Odd or Even #22 <li style="color: red;">• Dartboard #23 <li style="color: red;">• Traffic Light #24 <li style="color: red;">• Lady or Tiger #25
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

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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