

GCS Curriculum Map for Math II

Year at a Glance

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Quarter/Module	1	2	3	4	Modules 5-8
Module Title	Math 1 Review Module	Angle Relationships	Triangles	Transformations	
Time Frame	1.5 weeks	1.5 weeks	3 weeks	3 weeks	
Standards	Refer to 9th grade standards	NC.M2.G-CO.9	NC.M2.G-CO.7, NC.M2.G-CO.8, NC.M2.G-CO.10, NC.M2.G-SRT.3, NC.M2.G-SRT.4, NC.M2.G-SRT.6, NC.M2.G-SRT.8, NC.M2.G-SRT.12	NC.M2.G-CO.2, NC.M2.G-CO.3, NC.M2.G-CO.4, NC.M2.G-CO.5, NC.M2.G-SRT.1a, NC.M2.G-SRT.1b, NC.M2.G-SRT.1c, NC.M2.G-SRT.1d, NC.M2.G-SRT.2a, NC.M2.G-SRT.2b	
ELD Standards (Content)	ELD-MA.4-5.Explain.Expressive ELD-MA.4-5.Argue.Interpretive	ELD-MA.4-5.Explain.Interpretive ELD-MA.4-5.Aruege.Expressive	ELD-MA.4-5.Explain.Expressive ELD-MA.4-5.Argue.Interpretive	ELD-MA.4-5.Explain.Interpretive ELD-MA.4-5.Aruege.Expressive	
Essential Questions					
Performance Events					

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Module 1: Math 1 Review Module Essential Questions: <ul style="list-style-type: none"> I arrived at this solution by... Using combining like terms, the answer I found is... 		Timeline: 1 week
Performance Event: n/a		
SWBAT: (Mastery Objectives) <ul style="list-style-type: none"> Solve multistep equations and equations with a variable on both sides. Simplify polynomials. 		
Vertical Alignment		
Previous Grade Level Standards	Grade Level Standards	Next Grade Level Standards
n/a	n/a	n/a
Instructional Resources		
Tier III Vocabulary: Variable, constant, term, coefficient, inverse operation, polynomial	Performance Tasks: <ul style="list-style-type: none"> 	Additional Resources
Remediation Skills, Extensions and Considerations: <ul style="list-style-type: none"> Remediation: Delta Math Extension: Delta Math Considerations: Students will need remediation of solving equations and simplifying polynomials from Math 1. 		
ELD Standard 1: Social and Instructional Language Multilingual Learners communicate for Social and Instructional purposes within the school setting.		
ELD Standard 3: Language for Mathematics: Multilingual learners communicate information, ideas, and concepts necessary for academic success in the content area of Mathematics.		

LIS Strategies:

Reading Materials:

- Equations

Comprehension: Discussion & Writing:

- Share mathematical reasoning
- Repeated reasoning

Comprehension: Strategy Instruction:

- Look for patterns and relationships

Module 2: Angle Relationships		Timeline: 2 weeks
Essential Questions:		
Performance Event:		
SWBAT: (Mastery Objectives)		
Vertical Alignment		
Previous Grade Level Standards	Grade Level Standards	Next Grade Level Standards
	NC.M2.G-CO.9	
Instructional Resources		
Tier III Vocabulary: Parallel lines, transversal, alternate interior angles, alternate exterior angles, bisector	Performance Tasks:	Additional Resources
Remediation Skills, Extensions and Considerations: <ul style="list-style-type: none"> • Remediation: Delta Math • Extension: Delta Math • Considerations: Students may need remediation of angle relationship standards from 7th and 8th grade. 		
ELD Standard 1: Social and Instructional Language Multilingual Learners communicate for Social and Instructional purposes within the school setting.		
ELD Standard 3: Language for Mathematics: Multilingual learners communicate information, ideas, and concepts necessary for academic success in the content area of Mathematics.		
<u>LIS Strategies:</u> Reading Materials: <ul style="list-style-type: none"> • Equations • Visual representations Comprehension: Discussion & Writing: <ul style="list-style-type: none"> • Share mathematical reasoning 		

- Repeated reasoning

Comprehension: Strategy Instruction:

- Look for patterns and relationships

Comprehension: Knowledge Building

- Rely on previous understandings and knowledge

Module 3: Triangles		Timeline: 3 weeks
Essential Questions:		
Performance Event:		
SWBAT: (Mastery Objectives)		
Vertical Alignment		
Previous Grade Level Standards	Grade Level Standards	Next Grade Level Standards
	NC.M2.G-CO.7, NC.M2.G-CO.8, NC.M2.G-CO.10, NC.M2.G-SRT.3, NC.M2.G-SRT.4, NC.M2.G-SRT.6, NC.M2.G-SRT.8, NC.M2.G-SRT.12	
Instructional Resources		
Tier III Vocabulary: Triangle Congruence Theorem, Pythagorean Theorem, Triangle Midsegment Theorem, midsegment	Performance Tasks:	Additional Resources
Remediation Skills, Extensions and Considerations: <ul style="list-style-type: none"> • Remediation: Delta Math • Extension: Delta Math • Considerations: Students may ne 		
ELD Standard 1: Social and Instructional Language Multilingual Learners communicate for Social and Instructional purposes within the school setting.		
ELD Standard 3: Language for Mathematics: Multilingual learners communicate information, ideas, and concepts necessary for academic success in the content area of Mathematics.		
<u>LIS Strategies:</u> Reading Materials: <ul style="list-style-type: none"> • Equations • Visual representations Comprehension: Discussion & Writing:		

- Cite examples and explain reasoning

Comprehension: Strategy Instruction:

- Look for patterns and relationships

Module 4: Transformations		Timeline: 3 weeks
Essential Questions:		
Performance Event:		
SWBAT: (Mastery Objectives)		
Vertical Alignment		
Previous Grade Level Standards	Grade Level Standards	Next Grade Level Standards
	NC.M2.G-CO.2, NC.M2.G-CO.3, NC.M2.G-CO.4, NC.M2.G-CO.5, NC.M2.G-SRT.1a, NC.M2.G-SRT.1b, NC.M2.G-SRT.1c, NC.M2.G-SRT.1d, NC.M2.G-SRT.2a, NC.M2.G-SRT.2b	
Instructional Resources		
Tier III Vocabulary: Translation, reflection, rotation, dilation, scale factor, coordinate plane, coordinates, mapping	Performance Tasks:	Additional Resources
Remediation Skills, Extensions and Considerations: <ul style="list-style-type: none"> • Remediation: • Extension: • Considerations: 		
ELD Standard 1: Social and Instructional Language Multilingual Learners communicate for Social and Instructional purposes within the school setting.		
ELD Standard 3: Language for Mathematics: Multilingual learners communicate information, ideas, and concepts necessary for academic success in the content area of Mathematics.		
<u>LIS Strategies:</u> Reading Materials: <ul style="list-style-type: none"> • Graphs, charts, and tables • Visual representations 		

Academic Language & Vocabulary:

- Symbols and formulas

Comprehension: Strategy Instruction:

- Use appropriate tools strategically

Engagement:

- Model with mathematics

GCS Curriculum Map for Math II

Year at a Glance

Quarter/Module	5	6	7	8	Modules 1-4
Module Title	Probability and Statistics	Exponents and Radicals	Quadratics	Functions	
Time Frame					
Standards					
ELD Standards (Content)	ELD-MA.4-5.Explain.Interpretive ELD-MA.4-5.Arueg.Exp ressive	ELD-MA.4-5.Explain.Ex pressive ELD-MA.4-5.Argue.Inte rpretive	ELD-MA.4-5.Explain.Int erpretive ELD-MA.4-5.Arueg.Exp ressive	ELD-MA.4-5.Explain.Ex pressive ELD-MA.4-5.Argue.Inte rpretive	
Essential Questions					
Performance Events					

GCS Curriculum Map for Math II

Module 5: Probability and Statistics		Timeline:
Essential Questions:		
Performance Event:		
SWBAT: (Mastery Objectives)		
Vertical Alignment		
Previous Grade Level Standards	Grade Level Standards	Next Grade Level Standards
	NC.M2.S-IC.2, NC.M2.S-CP.1, NC.M2.S-CP.3a, NC.M2.S-CP.3b, NC.M2.S-CP.4, NC.M2.S-CP.5, NC.M2.S-CP.6, NC.M2.S-CP.7, NC.M2.S-CP.8, NC.M2.S-CP.1, NC.M2.S-CP.3a, NC.M2.S-CP.3b, NC.M2.S-CP.4, NC.M2.S-CP.5, NC.M2.S-CP.6, NC.M2.S-CP.7, NC.M2.S-CP.8	
Instructional Resources		
Tier III Vocabulary: Variables, distribution, standard deviation, inference, hypothesis, 2 way table	Performance Tasks:	Additional Resources
Remediation Skills, Extensions and Considerations: <ul style="list-style-type: none"> • Remediation: • Extension: • Considerations: 		
ELD Standard 1: Social and Instructional Language Multilingual Learners communicate for Social and Instructional purposes within the school setting.		
ELD Standard 3: Language for Mathematics: Multilingual learners communicate information, ideas, and concepts necessary for academic success in the content area of Mathematics.		

LIS Strategies:

Reading Materials:

- Statistical representations
- Infographics

Comprehension: Discussion & Writing:

- Use real world examples

Comprehension: Strategy Instruction:

- Look for patterns and relationships

Writing:

- Construct viable arguments

Engagement:

- Model with mathematics

Module 6: Exponents and Radicals		Timeline:
Essential Questions:		
Performance Event:		
SWBAT: (Mastery Objectives)		
Vertical Alignment		
Previous Grade Level Standards	Grade Level Standards	Next Grade Level Standards
	NC.M2.N-RN.1, NC.M2.N-RN.2, NC.M2.N-RN.3, NC.M2.N-CN.1, NC.M2.A-SSE.1a, NC.M2.A-SSE.1b, NC.M2.A-APR.1, NC.M2.A-CED.1, NC.M2.A-CED.2, NC.M2.A-CED.3, NC.M2.A-REI.1, NC.M2.A-REI.2	
Instructional Resources		
Tier III Vocabulary: Exponent, radical, square root, cube root, base, power, rational, irrational	Performance Tasks:	Additional Resources
Remediation Skills, Extensions and Considerations: <ul style="list-style-type: none"> • Remediation: • Extension: • Considerations: 		
ELD Standard 1: Social and Instructional Language Multilingual Learners communicate for Social and Instructional purposes within the school setting.		
ELD Standard 3: Language for Mathematics: Multilingual learners communicate information, ideas, and concepts necessary for academic success in the content area of Mathematics.		
<u>LIS Strategies:</u> Academic Language & Vocabulary: <ul style="list-style-type: none"> • Symbols & Formulas Comprehension: Strategy Instruction:		

- Decipher symbols and abstract ideas

Comprehension: Knowledge Building

- Rely on previous understandings and knowledge

Writing:

- Calculations

Module 7: Quadratics		Timeline:
Essential Questions:		
Performance Event:		
SWBAT: (Mastery Objectives)		
Vertical Alignment		
Previous Grade Level Standards	Grade Level Standards	Next Grade Level Standards
	NC.M2.A-SSE.3, NC.M2.A-REI.4a, NC.M2.A-REI.4b, NC.M2.A-REI.7, NC.M2.A-REI.11	
Instructional Resources		
Tier III Vocabulary: Parabola, vertex, zeros, roots, axis of symmetry, standard form, vertex form	Performance Tasks:	Additional Resources
Remediation Skills, Extensions and Considerations: <ul style="list-style-type: none"> • Remediation: • Extension: • Considerations: 		
ELD Standard 1: Social and Instructional Language Multilingual Learners communicate for Social and Instructional purposes within the school setting.		
ELD Standard 3: Language for Mathematics: Multilingual learners communicate information, ideas, and concepts necessary for academic success in the content area of Mathematics.		
<u>LIS Strategies:</u> Reading Materials: <ul style="list-style-type: none"> • Visual representations • Graphs, charts, and tables Comprehension: Discussion & Writing: <ul style="list-style-type: none"> • Share mathematical reasoning 		

- Repeated reasoning

Comprehension: Knowledge Building

- Rely on previous understandings and knowledge

Writing:

- Calculations

Engagement:

- Model with mathematics

Module 8: Functions		Timeline:
Essential Questions:		
Performance Event:		
SWBAT: (Mastery Objectives)		
Vertical Alignment		
Previous Grade Level Standards	Grade Level Standards	Next Grade Level Standards
	NC.M2.F-IF.1, NC.M2.F-IF.2, NC.M2.F-IF.4, NC.M2.F-IF.7, NC.M2.F-IF.8, NC.M2.F-IF.9, NC.M2.F-BF.1, NC.M2.F-BF.3	
Instructional Resources		
Tier III Vocabulary: Domain, range, linear function, quadratic function, inverse function, square root function, intervals of increase and decrease, intercept, symmetry	Performance Tasks:	Additional Resources
Remediation Skills, Extensions and Considerations: <ul style="list-style-type: none"> • Remediation: • Extension: • Considerations: 		
ELD Standard 1: Social and Instructional Language Multilingual Learners communicate for Social and Instructional purposes within the school setting.		
ELD Standard 3: Language for Mathematics: Multilingual learners communicate information, ideas, and concepts necessary for academic success in the content area of Mathematics.		
<u>LIS Strategies:</u> Reading Materials: <ul style="list-style-type: none"> • Graphs, charts, and tables 		

Comprehension: Discussion & Writing:

- Use real world examples

Comprehension: Strategy Instruction:

- Use appropriate tools strategically

Engagement:

- Model with mathematics

