Note: The focus maps are not required nor are they intended to serve as pacing guides, but rather to support discussion and collaboration amongst educators. The goal in discussing these maps is to build collective efficacy and ownership in the instructional process as resources are developed that support and align instruction.

Note: To be used in conjunction with Wiring Diagram

Key: Depth of Opportunity
MAJOR CLUSTERS 70%
SUPPORTING CLUSTERS 15-20%
ADDITIONAL CLUSTERS 10-15%

Content Area	Cluster	1st 9 WEEKS Proportional Reasoning, Probability, and Rational Numbers	2nd 9 WEEKS Proportional Reasoning and Algebra	3rd 9 WEEKS Algebra and Geometry	4th 9 WEEKS Functions, Statistics, and Probability
Proportional Reasoning 7A.1-7A.7	Analyze proportional relationships and use them to solve real-world and mathematical problems.	**[7A.1]** apply with probability and scale drawing [7A.29], [7A.30], [7A.31], [7A.32], [7.33] **[7A.2]** apply with probability and scale drawing [7A.29], [7A.30], [7A.31], [7A.32], [7A.33] **[7A.3]** apply with probability and scale drawing [7A.29], [7A.30], [7A.31], [7A.32], [7A.33] *** Removed - Percent error not listed in examples.	**[7A.1]** apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19] **[7A.2]** apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19] **[7A.3]** apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19] *** Removed - Percent error not listed in examples.	**[7A.2]** apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19], [7A.20], [7A.21] **[7A.3]** apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19], [7A.20], [7A.21] *** Removed - Percent error not listed in examples.	**[7A.2]** apply with functions and probability [7A.22], [7A.23], [7A.24], [7A.25], [7A.29], [7A.30], [7A.31], [7A.32] **[7A.3]** apply with functions and probability [7A.22], [7A.23], [7A.24], [7A.25], [7A.29], [7A.30], [7A.31], [7A.32] *** Removed - Percent error not listed in examples.
	Analyze the relationship between proportional and non-proportional situations.	Formerly 8th Grade Cluster **[7A.4]** apply with proportional reasoning above [7A.1], [7A.2], [7A.3] **[7A.5]** apply with proportional reasoning [7A.1], [7A.2], [7A.3] *** Added - Interpret unit rate as the constant of proportionality and slope **[7A.6]** apply with proportional reasoning [7A.1], [7A.2], [7A.3] **[7A.7]** apply with proportional reasoning [7A.1], [7A.2], [7A.3] *** Added - Compare proportional and non-proportional relationships	Formerly 8th Grade Cluster **[7A.4]** apply with proportional reasoning [7A.1], [7A.2], [7A.3] **[7A.5]** apply with proportional reasoning [7A.1], [7A.2], [7A.3] *** Added - Interpret unit rate as the constant of proportionality and slope **[7A.6]** apply with proportional reasoning [7A.1], [7A.2], [7A.3] **[7A.7]** apply with proportional reasoning [7A.1], [7A.2], [7A.3] *** Added - Compare proportional and non-proportional relationships	Formerly 8th Grade Cluster **[7A.4]** apply with proportional reasoning [7A.2], [7A.3] **[7A.5]** apply with proportional reasoning [7A.2], [7A.3] *** Added - Interpret unit rate as the constant of proportionality and slope **[7A.6]** apply with proportional reasoning [7A.2], [7A.3] **[7A.7]** apply with proportional reasoning [7A.2], [7A.3] *** Added - Compare proportional and non-proportional relationships	Formerly 8th Grade Cluster **[7A.4]** apply with proportional reasoning [7A.2], [7A.3] **[7A.5]** apply with proportional reasoning [7A.2], [7A.3] *** Added - Interpret unit rate as the constant of proportionality and slope **[7A.6]** apply with proportional reasoning [7A.2], [7A.3] **[7A.7]** apply with proportional reasoning [7A.2], [7A.3] *** Added - Compare proportional and non-proportional relationships

Number Systems and Operations 7A.8-7A.11	Apply and extend prior knowledge of addition, subtraction, multiplication, and division to operations with rational numbers.	**[7A.8]** *****Added - Extend strategies of multiplication to rational numbers to develop rules for multiplying signed numbers. Also, explain that division by zero is undefined.** **[7A.9]**	**[7A.8] apply with expressions and equations below [7A.17], [7A.18], [7A.19]** *****Added - Extend strategies of multiplication to rational numbers to develop rules for multiplying signed numbers. Also, explain that division by zero is undefined.** **[7A.9] Real-Worl Context**	**[7A.8] apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19], [7A.20], [7A.21** *****Added - Extend strategies of multiplication to rational numbers to develop rules for multiplying signed numbers. Also, explain that division by zero is undefined.** **[7A.9] apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19], [7A.20], [7A.21**	
	Understand that the real number system is composed of rational and irrational numbers	**Formerly 8th Grade Cluster** **[7A.10]** **[7A.11] apply with radicals below [7A.15]**		**Formerly 8th Grade Cluster** **[7A.10]** **[7A.11] apply with radicals below [7A.15]**	
Algebra and Functions 7A.12-7A.25	Create equivalent expressions using the properties of operations.		**[7A.12] apply with integers and angles [7A.8], [7A.37], [7A.38]** **[7A.13] apply with integers and angles [7A.8], [7A.37], [7A.38]** ***** Added - Explain how properties are related**	**[7A.12] apply with 2D and 3D figures [7A.36], [7A39], [7A.40], [7A.41]** **[7A.13] apply with 2D and 3D figures [7A.36], [7A39], [7A.40], [7A.41]** ***** Added - Explain how properties are related**	**[7.12] apply with functions [7A.22], [7A.23], [7A.24], [7A.25]** **[7.13] apply with functions [7A.22], [7A.23], [7A.24], [7A.25]** ***** Added - Explain how properties are related**
	Apply concepts of rational and integer exponents	**Formerly 8th Grade Cluster** **[7A.14]** ***** Added - Develop properties of integer exponents** **[7A.15] apply with 2D and 3D figures [7A.36], [7A39], [7A.40], [7A.41]** ***** Added - Number magnitude restriction for square roots and cube roots**		**Formerly 8th Grade Cluster** **[7A.14]** ***** Added - Develop properties of integer exponents** **[7A.15] apply with 2D and 3D figures [7A.36], [7A39], [7A.40], [7A.41]** ***** Added - Number magnitude restriction for square roots and cube roots**	**Formerly 8th Grade Cluster** **[7A.14]** ***** Added - Develop properties of integer exponents** **[7A.16]**
	Solve real-world and mathematical problems using numerical and algebraic expressions, equations, and inequalities.		**[7A.17] apply with integers and angles [7A.8], [7A.37], [7A.38]** **[7A.18] apply with integers and angles [7A.8], [7A.37], [7A.38]** **Part Algebra 1 Standard** **[7A.19] apply with integers and angles [7A.8], [7A.37], [7A.38]** **Formerly Algebra 1 Standard**	**[7A.17] apply with 2D and 3D figures [7A.36], [7A39], [7A.40], [7A.41]** **[7A.18] apply with 2D and 3D figures [7A.36], [7A39], [7A.40], [7A.41]** **Part Algebra 1 Standard** **[7A.19] apply with 2D and 3D figures [7A.36], [7A39], [7A.40], [7A.41]** **Formerly Algebra 1 Standard** **[7A.20] apply with 2D and 3D figures [7A.36], [7A39], [7A.40], [7A.41]** **Formerly Algebra 1 Standard** **[7A.21] apply with 2D and 3D figures [7A.36], [7A39], [7A.40], [7A.41]** **Formerly 8th Grade Standard**	

	Explain, evaluate, and compare functions.				Formerly 8th Grade Cluster **[7A.22] Functions and Graphs** Formerly Agebra 1 Standard **[7A.23] Construct Function** Formerly 8th grade Standard **[7A.24] Intersection** Formerly Algebra 1 Standard **[7A.25] Approximate Solutions** Formerly Algebra 1 Standard
Data Analysis, Statistics, and Probabiltiy 7A.26-7A.32	Make inferences about a population using random sampling.				**[7A.26]** **[7A.27]** Additional Cluster *** Added - Informally explain situations in which statistical bias may exist.
	Make inferences from an informal comparison of two populations.				**[7A.28]** *** Added - Mean Absolute Deviation is now introduced in 7th grade.
	Investigate probability models.	**[7A.29]** apply with proportional reasoning [7A.1], [7A.2], [7A.3] **[7A.30]** apply with proportional reasoning [7A.1], [7A.2], [7A.3] **[7A.31]** apply with proportional reasoning [7A.1], [7A.2], [7A.3] **[7A.32]** apply with proportional reasoning [7A.1], [7A.2], [7A.3]			**[7A.29]** apply with proportional reasoning [7A.2], [7A.3] **[7.30]** apply with proportional reasoning [7A.2], [7A.3] **[7.31]** apply with proportional reasoning [7A.2], [7A.3] **[7.32]** apply with proportional reasoning [7A.2], [7A.3]
	Construct and describe geometric figures, analyzing relationships among them.	**[7A.33]** apply with proportional reasoning [7A.1], [7A.2], [7A.3]		**[7A.34]** **[7A.35]**	

Geometry and Measurement 7A.33-7A.44	Solve real-world and mathematical problems involving angle measure, circumference, area, surface area, and volume.		**[7A.37]** apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19] **[7A.38]** Formeraly 8th Grade Standard	**[7A.36]** apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19], [7A.20], [7A.21] ***Added- Explain the relationships among circumference, diameter, area, and radius of a circle. **[7A.39]** apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19], [7A.20], [7A.21] **[7A.40]** apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19], [7A.20], [7A.21] Formerly 8th Grade Standard **[7A.41]** apply with expressions and equations [7A.12], [7A.13], [7A.17], [7A.18], [7A.19], [7A.20], [7A.21] Formerly 8th Grade Standard	
	Understand congruence and similarity using physical models or technology			**[7A.42]** Congruence Formerly 8th Grade Standard **[7A.43]** Transformations and Coordinate Plane Formerly 8th Grade Standard **[7A.44]** Similarity Formerly 8th Grade Standard	**[7.42]** Congruence Formerly 8th Grade Standard **[7.43]** Transformations and Coordinate Plane Formerly 8th Grade Standard **[7.44]** Similarity Formerly 8th Grade Standard
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