CASE

AgX Standards Alignment – Math

	COMMON CORE STATE STANDARDS INITIATIVE Math – Middle School	Lesson 1 Ag in the Past	Lesson 2 Plants We Grow	Lesson 3 Resources We Use	Lesson 4 Resources We Recycle	Lesson 5 Energy We Consume	Lesson 6 Animals We Care For	Lesson 7 Food We Eat	Lesson 8 Ag in My Future
CCSS: Rati	os and Proportional Relationships								
Grade 6	 Understand ratio concepts and use ratio reasoning to solve problems. 			Х					
Grade 7	 Analyze proportional relationships and use them to solve real-world and mathematical problems. 			Х					
CCSS: Con	ceptual Category – The Number System								
Grade 6	 Apply and extend previous understandings of multiplication and division to divide fractions by fractions. 								1
	 Compute fluently with multi-digit numbers and find common factors and multiples. 								
	 Apply and extend previous understandings of numbers to the system of rational numbers. 						Х		1
Grade 7	 Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. 								
Grade 8	 Know that there are numbers that are not rational and approximate them by rational numbers. 								
CCSS: Con	ceptual Category – Expressions and Equations								
Grade 6	 Apply and extend previous understandings of arithmetic to algebraic expressions. 								
	 Reason about and solve one-variable equations and inequalities. 								
	 Represent and analyze quantitative relationships between dependent and independent variables. 			Х		Х			
Grade 7	 Use properties of operations to generate equivalent expressions. 			Х					
	 Solve real-life and mathematical problems using numerical and algebraic expressions and equations. 			Х		Х			
Grade 8	Work with radicals and integer exponents.								
	 Understand the connections between proportional relationships, lines, and linear equations. 			Х		Х		Х	
	 Analyze and solve linear equations and pairs of simultaneous linear equations. 								1

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CCSS: Conceptual Category – Functions										
Grade 8	 Define, evaluate, and compare functions. 									
	Use functions to model relationships between quantities.									
CCSS: Conceptual Category – Geometry										
Grade 6	 Solve real-world and mathematical problems involving area, surface area, and volume. 	Х								
Grade 7	 Draw, construct and describe geometrical figures and describe the relationships between them. 									
	 Solve real-life and mathematical problems involving angle measure, area, surface area, and volume. 	Х								
Grade 8	 Understand congruence and similarity using physical models, transparencies, or geometry software. 									
	 Understand and apply the Pythagorean Theorem. 									
	 Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres. 									
CCSS: Conceptual Category – Statistics and Probability										
Grade 6	 Develop understanding of statistical variability. 									
	 Summarize and describe distributions. 									
Grade 7	 Use random sampling to draw inferences about a population. 					Х				
	 Draw informal comparative inferences about two populations. 									
	 Investigate chance processes and develop, use, and evaluate probability models. 									
Grade 8	 Investigate patterns of association in bivariate data. 					Х				