This is a resource for teaching math using Agriculture in the Classroom lessons. The domains and clusters for the New York State Next Generation Mathematics Learning Standards are listed for each grade level up until algebra I to highlight how the lessons can be included in planning. Standards aren't listed to avoid being too prescriptive, educators are encouraged to choose the specific standards that match their overall planning. Some of these lessons have direct connections while some may require modifying problems to make connections even stronger. In addition to these lessons, there are additional lessons found on the <u>Agricultural Literacy Curriculum Matrix</u>.

Grade	Lessons from the curriculum matrix	Next Generation Mathematics and Common Core domains and
		clusters
Pre-K	All Kinds of Farms	Counting and cardinality –
	Animals on the Farm	Count to tell the number of objects.
	Crops on the Farm	
	Machines on the Farm	
К	Counting Sheep or People? Census	Number and Operations in Base Ten –
	2020	
		Work with numbers 11-19 to gain foundations for place value.
	Agriculture Counts	
	Tomato Trivia	
1	Freshest Fruits	Operations and Algebraic Thinking –
	Milk or Meat? Beef or Dairy?	Understand and apply properties of operations and the
	<u> </u>	relationship between addition and subtraction
2	Dig Em Up	Measurement and Data –
	From Sap to Syrup	Measure and estimate lengths in standard units.
2	Farming in a Glove	Operations and Algobraic Thinking
3	<u>A Day Without Dairy</u>	Operations and Algebraic Thinking –
		Represent and solve problems involving multiplication and division.
	A Rafter of Turkeys	Geometry –
		Reason with shapes and their attributes
4	FoodMASTER: Measurement	Number and Operations – Fractions –
		Extend understanding of fraction equivalence and ordering.
	Customary & Metric Food	Measurement and Data –
	Measurement	
		Solve problems involving measurement and conversion of
-	Estista Nueve la sue	measurements from a larger unit to a smaller unit.
5	<u>Eaible Numbers</u>	Geometry –

		Graph points on the coordinate plane to solve real-world and mathematical problems.
	Let's Raise a Barn	Measurement and Data –
		Geometric measurement: understand concepts of volume and relate volume to multiplication and addition.
6	FoodMASTER Middle: Cheese	Ratio and Proportional Reasoning –
		Understand ratio concepts and use ratio reasoning to solve problems.
	Fertilizers and the Environment	Statistics and Probability –
		Develop an understanding of statistical variability.
7	Grocery Store Problem Solving	Ratio and Proportional Reasoning –
		Analyze proportional relationships and use them to solve real- world and mathematical problems.
	What's on MyPlate?	Statistics and Probability –
0	The Disht Colution	Draw informal comparative inferences about two populations.
8	The Right Solution	Expressions and Equations (inequalities) –
		Work with radicals and integer exponents.
Algebra I	Understanding Bacteria	Seeing Structure in Expressions –
		Interpret the structure of expressions.
	One in a Million	Number and Quantity –
	Concentrate on the Solution	Reason quantitatively and use units to solve problems.