

EGG FARMING: PAST, PRESENT, AND FUTURE

GRADES 6-8 STANDARDS ALIGNMENT	Activity 1	Activity 2	Activity 3
Family and Consumer Science Standards			
2.4 Evaluate the effects of technology on individual and family resources.	x	x	x
2.5 Analyze relationships between the economic system and consumer actions.	x	x	x
3.1 Analyze career paths within consumer service industries.	x	x	x
3.5 Demonstrate skills needed for product development, testing, and presentation.		x	x
14.4 Evaluate factors that affect food safety from production through consumption.	x	x	x
14.5 Evaluate the influence of science and technology on food composition, safety, and other issues.	x	x	x
Next Generation Science Standards			
<u>From Molecules to Organisms: Structures and Processes</u>			
MS-LS1-4 Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.	x	x	
MS-LS1-5 Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms.	x	x	
<u>Biological Evolution: Unity and Diversity</u>			
MS-LS4-4 Construct an explanation based on evidence that describes how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.	x		
MMS-LS4-5 Gather and synthesize information about the technologies that have changed the way humans influence the inheritance of desired traits and organisms.	x		
<u>Earth's Systems</u>			
MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.	x	x	x
<u>Earth and Human Activity</u>			
MS-ESS3-3 Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.			x
MS-ESS3-4 Construct an argument supported by evidence for how increases in human population and per capita consumption of natural resources impact Earth's systems.	x	x	x
<u>Engineering Design</u>			
MS-ETS1-1 Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.			x
MS-ETS1-2 Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.			x

MS-ETS1-3 Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.			X
MS-ETS1-4 Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.			X
National Science Standards			
<u>Science as Inquiry</u>			
Abilities necessary to do scientific inquiry	X	X	X
Understanding about scientific inquiry	X	X	X
<u>Life Science</u>			
Structures and function in living systems	X	X	X
Reproduction and heredity	X	X	X
Regulation and behavior	X	X	X
Populations and ecosystems	X	X	X
<u>Science and Technology</u>			
Abilities of technological design	X	X	X
Understanding about science and technology	X	X	X
<u>Science in personal and social perspectives</u>			
Populations, resources, and environments	X	X	X
Science and technology in society	X	X	X
<u>History and Nature of Science</u>			
Science as a human endeavor	X	X	X
Nature of science	X	X	X
History of science	X	X	X