



SCIENCE ON THE FARM

MIDDLE SCHOOL CURRICULAR STANDARDS

NEXT GENERATION SCIENCE STANDARDS*	Activity 1	Activity 2	Activity 3	Bonus Activity
MS-LS1-5 From Molecules to Organisms: Structures and Processes Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms.		•		
MS-LS2-5 Ecosystems: Interactions, Energy, and Dynamics Evaluate competing design solutions for maintaining biodiversity and ecosystem services.	•	•		•
MS-LS4-5 Biological Evolution: Unity and Diversity Gather and synthesize information about the technologies that have changed the way humans influence the inheritance of desired traits in organisms.	•		•	•
MS-ESS3-3 Earth and Human Activity Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.	•			
MS-ETS1-2 Engineering Design Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.	•			•

* NGSS Lead States. 2013. *Next Generation Science Standards: For States, By States*. Washington, DC: The National Academies Press.



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COMMON CORE ENGLISH LANGUAGE ARTS STANDARDS**	Activity 1	Activity 2	Activity 3	Bonus Activity
Reading Literature				
Key Ideas and Details: RL.6.1, RL.7.1, RL.8.1 Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.	•	•	•	
Speaking and Listening				
Comprehension and Collaboration SL.6.1, SL.7.1, SL.8.1 : Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade-level topics and texts, building on others' ideas and expressing their own clearly.	•	•	•	•
Writing				
Text Types and Purposes: W.6.3, W.7.3, W.8.3 Write narratives to develop real or imagined experiences or events using effective technique, relevant descriptive details, and well- structured event sequences.	•	•	•	•
Production and Distribution of Writing: W.6.4, W.7.4, W.8.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	•	•	•	
Language				
Conventions of Standard English: L.6.1, L.7.1, L.8.1 Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	•	•	•	
L.6.2, L.7.2, L.8.2 Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	•	•	•	
Knowledge of Language: L.6.3, L.7.3, L.8.3 Use knowledge of language and its conventions when writing, speaking, reading, or listening.	•	•	•	

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