



# FARMING *for the* FUTURE

## NEXT GENERATION SCIENCE STANDARDS\* GRADES 9-12

Standard	Activity 1	Activity 2	Activity 3
<b>HS-ETS1-1 Engineering Design</b> Analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants.	●	●	
<b>HS-ETS1-2 Engineering Design</b> Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.	●	●	
<b>HS-ETS1-3 Engineering Design</b> Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics as well as possible social, cultural, and environmental impacts.			
<b>HS-ESS3-2 Earth and Human Activity</b> Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios.	●	●	
<b>HS-ESS3-3 Earth and Human Activity</b> Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.	●	●	
<b>HS-ESS3-4 Earth and Human Activity</b> Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.	●	●	

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

# COMMON CORE ENGLISH LANGUAGE ARTS STANDARDS\*\*

## GRADES 9-12

Standard	Activity 1	Activity 2	Activity 3
<p><b>Literacy in History/Social Studies, Key Ideas and Details:</b>  <b>CCSS.ELA-LITERACY.RH.9-10.2</b>            Determine the central ideas or information of a primary or secondary source; provide an accurate summary of how key events or ideas develop over the course of the text.</p>	●	●	
<p><b>Literacy in History/Social Studies, Integration of Knowledge and Ideas:</b>  <b>CCSS.ELA-LITERACY.RH.9-10.9</b>            Compare and contrast treatments of the same topic in several primary and secondary sources.</p>	●		
<p><b>Reading Informational Text, Integration of Knowledge and Ideas:</b>  <b>CCSS.ELA-LITERACY.RI.9-10.8</b>            Delineate and evaluate the argument and specific claims in a text, assessing whether the reasoning is valid and the evidence is relevant and sufficient; identify false statements and fallacious reasoning.</p>			●
<p><b>Literacy in History/Social Studies, Key Ideas and Details:</b>  <b>CCSS.ELA-LITERACY.RH.11-12.2</b>            Determine the central ideas or information of a primary or secondary source; provide an accurate summary that makes clear the relationships among the key details and ideas.</p>	●	●	
<p><b>Literacy in History/Social Studies, Key Ideas and Details:</b>  <b>CCSS.ELA-LITERACY.RH.11-12.3</b>            Evaluate various explanations for actions or events and determine which explanation best accords with textual evidence, acknowledging where the text leaves matters uncertain.</p>	●		
<p><b>Reading Informational Text, Integration of Knowledge and Ideas:</b>  <b>CCSS.ELA-LITERACY.RH.11-12.7</b>            Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, as well as in words) in order to address a question or solve a problem.</p>	●	●	
<p><b>Reading Informational Text, Integration of Knowledge and Ideas:</b>  <b>CCSS.ELA-LITERACY.RH.11-12.8</b>            Evaluate an author’s premises, claims, and evidence by corroborating or challenging them with other information.</p>	●		

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# COMMON CORE ENGLISH LANGUAGE ARTS STANDARDS\*\*

## GRADES 9-12 (continued)

Standard	Activity 1	Activity 2	Activity 3
<p><b>Writing, Text Types &amp; Purposes:</b>  <b>CCSS.ELA-LITERACY.W.9-10.2</b>            Write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content.</p>			
<p><b>Literacy in Science &amp; Technical Subjects, Craft &amp; Structure:</b>  <b>CCSS.ELA-LITERACY.RST.9-10.4</b>            Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9-10 texts and topics.</p>			

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