

AgX Standards Alignment – NALO

National Agricultural Literacy Outcomes National Agriculture in the Classroom	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
Theme 1: Agriculture and the Environment			1					
a. Compare and contrast the advantages and disadvantages involved when appropriate potential appropriate agricultural appropriate.		Χ						
 when converting natural ecosystems to agricultural ecosystems. b. Describe benefits and challenges of using conservation practices for natural resources (e.g., soil, water, and forests), in agricultural systems which impact water, air, and soil quality. 		Х	Х	Х				
c. Discover how natural resources are used and conserved in		Х	Х	х				
 agriculture (e.g., soil conservation, water conservation). d. Discuss (from multiple perspectives) land and water use by various 								
groups (i.e., ranchers, farmers, hunters, miners, recreational users, government, etc.), and how each use carries a specific set of benefits and consequences that affect people and the environment.	Х			Х				
 e. Discuss the comparative environmental pros and cons of populations relying on their local and regional resources versus tapping into a global marketplace. 								
 f. Explain and discuss why people migrate and change environments to meet their basic needs. 								
 g. Recognize how climate and natural resources determine the types of crops and livestock that can be grown and raised for consumption. 				Χ				
h. Recognize the factors of an agricultural system which determine its sustainability.	Х	Х	Х	Х	Х			
Theme 2: Plants and Animals for Food, Fiber, & Energy C	Outcor	nes						
 a. Describe the differences in plants and animals used for food, clothing, shelter, and fuel before and after European settlement of the United States. 	Х					Х		
 b. Explain the role of ethics in the production and management of food, fiber (fabric or clothing), and energy sources. 			Х		Χ	Х		
 c. Identify farm practices for plant protection (e.g., using a pesticide, integrated pest management, cultural practices) and the harvest of safe products for consumers. 		Х						
d. Identify renewable and nonrenewable energy sources.			Х		Χ			
 e. Identify strategies for housing for animal welfare and the safety of animal products (e.g., meat, milk, eggs). 						Χ		
• f. Identify where labeling indicates the origin of food and fiber (fabric or clothing).				Χ				
Theme 3: Food, Health, and Lifestyle Outcomes								
a. Demonstrate safe methods for food handling, preparation, and storage in the home.							Χ	Χ
b. Evaluate food labels to determine food sources that meet nutritional needs.							Χ	Х
c. Evaluate serving size related to nutritional needs.							Χ	Х
d. Explain how factors, such as culture, convenience, access, and marketing affect food choices locally, regionally, and globally.							Х	
e. Explain the benefits and disadvantages of food processing.							Χ	
• f. Explain the role of ethics in the production and management of food, fiber (fabric or clothing), and energy sources.			Х		Х			

National Agricultural Literacy Outcomes	Ag in the	Plants We	Resources	Lesson 4 Resources We Recycle	Lesson 5 Energy We Consume	Lesson 6 Animals We Care For	Lesson 7 Food We	Lesson 8 Ag in My Future
National Agriculture in the Classroom	Lesson 1 Past	Lesson 2 Grow	Lesson 3 We Use	Lesson 4 Re We Recycle	Lesson 5 Consume	Lesson 6 Care For	Lesson 7 Eat	Lesson 8 Future
• g. Identify agricultural products (foods) that provide valuable nutrients for a balanced diet.		_					Χ	
h. Identify forms and sources of food contamination relative to personal health and safety.							Χ	
i. Identify sources of agricultural products that provide food, fuel, clothing, shelter, medical, and other non-food products for their community, state, and/or nation.	Х		Х		Х	Х	Х	Х
• j. Identify the careers in food production, processing, and nutrition that are essential for a healthy food supply.					Χ			Х
Theme 4: Science, Technology, Engineering, & Mathema	tics O	utcon	nes					
 a. Compare and contrast historical and current food processing and systems. 							Χ	
 b. Describe how biological processes influence and are leveraged in agricultural production and processing (e.g., photosynthesis, fermentation, cell division, heredity/genetics, nitrogen fixation). 		Х		Χ	Χ	Х		
• c. Describe the process of development from hunting and gathering to farming.	Χ							
 d. Discuss how technology has changed over time to help farmers/ranchers provide more food to more people. 		Χ						
e. Explain how and why agricultural innovation influenced modern economic systems.				Χ				
f. Explain the harmful and beneficial impacts of various organisms related to agricultural production and processing (e.g., harmful bacteria/beneficial bacteria, harmful/beneficial insects) and the technology developed to influence these organisms.		Х						
g. Identify science careers related to both producers and consumers of agricultural products.					Χ	Х		
h. Identify specific technologies that have reduced labor in agriculture.								
 i. Provide examples of science and technology used in agricultural systems (e.g., GPS, artificial insemination, biotechnology, soil testing, ethanol production, etc.); explain how they meet our basic needs; and detail their social, economic, and environmental impacts. 			Х					
Theme 5: Culture, Society, Economy, & Geography Outc	omes							
a. Consider the economic value of agriculture in America.								
b. Distinguish between careers in production (farmers and ranchers) with those that directly involve consumers (business and nutrition).								Х
c. Explain how agricultural production and trade led to the development of industrialized societies.								
 d. Explain how prices for agricultural goods are determined. e. Explain the role of exploration and trade in sustaining early 								
societies. • f. Highlight the interaction and significance of state historical and								
current agricultural events on governmental and economic developments (e.g., the building of railroads, the taxation of goods,								
etc.). • g. Identify agricultural products that are exported and imported.								
h. Identify farm ownership in relation to processor ownership (e.g., cooperatives, corporations, vertical integration).								