



Pennsylvania Standards Alignment

The presentations offered by The Educated Choices Program provide support for teaching and learning of the following standards:

English Language Arts Grades 9-12		Environment and Modern Agriculture	Healthful Eating	Future of Food
Grade 9-10 Speaking and Listening	CC.1.5.9-10.A Initiate and participate effectively in a range of collaborative discussions on grade level topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.	✓	✓	✓
Grade 9-10 Speaking and Listening	CC.1.5.9-10.B Evaluate a speaker's perspective, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.	✓	✓	✓
Grade 9-10 Speaking and Listening	CC.1.5.9-10.C Integrate multiple sources of information presented in diverse media or formats (e.g., visually, quantitatively, orally) evaluating the credibility and accuracy of each source.	✓	✓	✓

<p>Grade 11-12 Speaking and Listening</p>	<p>CC.1.5.11-12.A</p> <p>Initiate and participate effectively in a range of collaborative discussions on grade level topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>
<p>Grade 11-12 Speaking and Listening</p>	<p>CC.1.5.11-12.B</p> <p>Evaluate how the speaker's perspective, reasoning, and use of evidence and rhetoric affect the credibility of an argument through the author's stance, premises, links among ideas, word choice, points of emphasis, and tone.</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>
<p>Grade 11-12 Speaking and Listening</p>	<p>CC.1.5.11-12.C</p> <p>Integrate multiple sources of information presented in diverse formats and media (e.g., visually, quantitative, orally) in order to make informed decisions and solve problems, evaluating the credibility and accuracy of each source and noting any discrepancies among the data.</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>

<p>Family and Consumer Sciences 9-12</p>		<p>Environment and Modern Agriculture</p>	<p>Healthful Eating</p>	<p>Future of Food</p>
<p>Food Science and Nutrition</p>	<p>11.3.9.C</p> <p>Analyze the impact of food addictions and eating disorders on health.</p>		<p>✓</p>	

Food Science and Nutrition	11.3.9.D Analyze relationship between diet and disease and risk factors (e.g., calcium and osteoporosis; fat, cholesterol and heart disease; folate and birth defects; sodium and hypertension).		✓	
Food Science and Nutrition	11.3.12.A Analyze how food engineering and technology trends will influence the food supply.			✓
Food Science and Nutrition	11.3.12.C Evaluate sources of food and nutrition information.	✓	✓	✓
Food Science and Nutrition	11.3.12.D Critique diet modifications for their ability to improve nutritionally-related health conditions (e.g., diabetes, lactose-intolerance, iron deficiency).		✓	
Food Science and Nutrition	11.3.12.F Evaluate the application of nutrition and meal planning principles in the selection, planning, preparation and serving of meals that meet the specific nutritional needs of individuals across their lifespan.		✓	

Health, Safety, and Physical Education Grades 9-12		Environment and Modern Agriculture	Healthful Eating	Future of Food
Concepts of Health	10.1.9.C Analyze factors that impact nutritional choices of adolescents.	✓	✓	✓
Concepts of Health	10.1.12.B Evaluate factors that impact the body systems and apply protective/ preventive strategies.		✓	
Concepts of Health	10.1.12.C Analyze factors that impact nutritional choices of adults.	✓	✓	✓
Concepts of Health	10.1.12.E Identify and analyze factors that influence the prevention and control of health problems.		✓	✓
Healthful Living	10.2.9.B Analyze the relationship between health-related information and adolescent consumer choices.		✓	

Healthful Living	10.2.9.D Analyze and apply a decision-making process to adolescent health and safety issues.		✓	
Healthful Living	10.2.9.E Explain the interrelationship between the environment and personal health.	✓	✓	✓
Healthful Living	10.2.12.B Assess factors that impact adult health consumer choices.	✓	✓	✓
Healthful Living	10.2.12.D Examine and apply a decision-making process to the development of short and long-term health goals.		✓	
Healthful Living	10.2.12.E Analyze the interrelationship between environmental factors and community health.	✓	✓	✓

Science Grades 9-12		Environment and Modern Agriculture	Healthful Eating	Future of Food
Technology and Engineering Education	3.4.10.A1 Illustrate how the development of technologies is often driven by profit and an economic market.			✓
Technology and Engineering Education	3.4.10.B1 Compare and contrast how the use of technology involves weighing the trade-offs between the positive and negative effects.	✓		✓
Technology and Engineering Education	3.4.10.B2 Demonstrate how humans devise technologies to reduce the negative consequences of other technologies.	✓		✓
Technology and Engineering Education	3.4.10.D3 Synthesize data, analyze trends, and draw conclusions regarding the effect of technology on the individual, society, and the environment.	✓		✓

Technology and Engineering Education	3.4.10.E2 Compare and contrast how the engineering design and management of agricultural systems require knowledge of artificial ecosystems and the effects of technological development on flora and fauna.	✓		✓
Technology and Engineering Education	3.4.12.B1 Analyze ethical, social, economic, and cultural considerations as related to the development, selection, and use of technologies.	✓		✓
Technology and Engineering Education	3.4.12.E2 Compare and contrast the technologies of biotechnology, conservation, bio-fuels, and ecosystems as they relate to managing Earth's resources effectively.	✓		✓
Technology and Engineering Education	3.4.12.E6 Compare and contrast the importance of science, technology, engineering and math (STEM) as it pertains to the manufactured world.			✓
Environment and Ecology	4.1.10.A Examine the effects of limiting factors on population dynamics.	✓		

Environment and Ecology	4.1.10.B Explain the consequences of interrupting natural cycles.	✓		
Environment and Ecology	4.1.10.C Evaluate the efficiency of energy flow within a food web.	✓		
Environment and Ecology	4.1.10.D Research practices that impact biodiversity in specific ecosystems.	✓		✓
Environment and Ecology	4.1.10.E Analyze how humans influence the pattern of natural changes (e.g. primary / secondary succession and desertification) in ecosystems over time.	✓		
Environment and Ecology	4.1.12.A Analyze the significance of biological diversity in an ecosystem. <ul style="list-style-type: none"> Analyze the differences between natural causes and human causes of extinction. 	✓		
Environment and Ecology	4.1.12.C Research how humans affect energy flow within an ecosystem. <ul style="list-style-type: none"> Describe the impact of industrial, agricultural, and commercial enterprises on an ecosystem 	✓		

Environment and Ecology	4.1.12.E Research solutions addressing human impacts on ecosystems over time.	✓		✓
Environment and Ecology	4.2.10.C Explain the relationship between water quality and the diversity of life in a freshwater ecosystem.	✓		
Environment and Ecology	4.2.10.E Examine the interactions between abiotic and biotic factors within a watershed.	✓		
Environment and Ecology	4.3.10.A Evaluate factors affecting the use of natural resources.	✓		✓
Environment and Ecology	4.3.10.B Analyze how humans manage and distribute natural resources.	✓		✓
Environment and Ecology	4.4.10.A Explain the relationships between and among the components of the food and fiber system.	✓		

Environment and Ecology	4.4.10.B Analyze the effects of agriculture on a society's economy, environment, standard of living, and foreign trade	✓		
Environment and Ecology	4.4.10.C Analyze how agricultural sciences and technologies strive to increase efficiency while balancing the needs of society with the conservation of our natural resources.	✓		✓
Environment and Ecology	4.4.10.D Evaluate the use of technologies to increase plant and animal productivity	✓		✓
Environment and Ecology	4.4.12.A Research and analyze the social, political, economic, and environmental factors that affect agricultural systems.	✓		✓
Environment and Ecology	4.4.12.C Analyze research and development initiatives as they relate to agriculture.	✓		✓
Environment and Ecology	4.5.10.D Evaluate various methods of managing waste as related to economic, environmental, and technological factors.	✓		✓

Environment and Ecology	4.5.12.D Analyze the effects of new and emerging technologies on biodiversity in specific ecosystems.	✓		✓
Environment and Ecology	4.5.12.D Evaluate waste management practices.	✓		✓
Environment and Ecology	4.5.12.E Analyze how consumer demands promote the production of pollutants that affect human health.	✓		

Social Studies Grades 9-12		Environment and Modern Agriculture	Healthful Eating	Future of Food
Economics	6.1.9.B Identify the origin of resources and analyze the impact on the production of goods and services.	✓		✓
Geography	7.1.12.B Assess how physical changes to a region may have global impact.	✓		

Geography	7.4.9.B Compare and contrast the effect of people on the physical region across regions of the United States.	✓		✓
Geography	7.4.12.A Analyze the global effects of changes in the physical systems.	✓		✓
Geography	7.4.12.B Analyze the global effects of human activity on the physical systems.	✓		✓