



JC Schools Food Science Yearly Standards

Overarching Standards

9-12.FS.LO.01

Exhibit critical thinking and problem solving skills to locate, analyze and apply information in career planning and employment situations.

9-12.FS.LO.02

Demonstrate employability skills required by business and industry

11-12.RI.1.B

Determine the meaning of words and phrases as they are used in the text, including figurative, connotative, and content-specific meanings using context, affixes, or reference materials.

11-12.W.1.A

Conduct research to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; gather multiple relevant, credible sources, print and digital; integrate information using a standard citation system. Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the usefulness of each source in answering the research question; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and following a standard format for citation.

9-12.FS.LO.03

Learn to work safely in the agriculture lab and work sites, demonstrate selected competencies in leadership through the FFA and agricultural industry organizations, and develop plans for a supervised agricultural experience program (SAEP).

Units	Priority Standards	Supporting Standards
Unit 1	CRP.07 Employ valid and reliable research strategies.	
Introduction to Food Science	CS.03	

	Examine and Summarize the importance of health, safety and environmental management system in AFNR workplaces	
	FPP.02 Apply principles nutrition, biology, microbiology, chemistry, and human behavior to the development of food products.	
	FPP.04 Explain the scope of the food industry and the historical and current developments of food product and processing.	
Unit 2	CRP.02	
Chemistry of	Apply appropriate academic and technical skills	
Food	CRP.04	
	Communicate clearly, effectively and with reason.	
	CRP.07	
	Employ valid and reliable research strategies.	
	CRP.12	
	Work productively in teams while using cultural/global competence.	
	CS.03	
	Examine and summarize the importance of health, safety and	
	environmental management systems in AFNR workplaces	
	FPP.02	
	Apply principles of nutrition, biology, microbiology, chemistry and human	
	behavior to the development of food products.	
	FPP.04	
	Explain the scope of the food industry and the historical and current	
	developments of food product and processing.	

Unit 3

CRP.02

Apply appropriate academic and technical skills.

Food Processing & Preservation

CRP.06

Demonstrate creativity and innovation.

CRP.07

Employ valid and reliable research strategies.

CRP.08

Utilize critical thinking to make sense of problems and persevere in solving them.

CRP.11

Use technology to enhance productivity.

CS.01

Analyze how issues, trends, technologies and public policies impact systems in the Agriculture, Food & Natural Resources Career Cluster.

CS.03

Examine and summarize the importance of health, safety and environmental management systems in AFNR workplaces

FPP.01

Develop and implement procedures to ensure safety, sanitation and quality in food product and processing facilities

FPP.02

Apply principles of nutrition, biology, microbiology, chemistry and human behavior to the development of food products.

FPP.03

Select and process food products for storage, distribution and consumption

	FPP.04 Explain the scope of the food industry and the historical and current developments of food product and processing.	
Unit 4 Food Health and Safety	CRP.02 Apply appropriate academic and technical skills. CRP.04 Communicate clearly, effectively and with reason. CRP.05 Consider the environmental, social and economic impacts of decisions. CRP.06 Demonstrate creativity and innovation. CRP.08 Utilize critical thinking to make sense of problems and persevere in solving them. CRP.12 Work productively in teams while using cultural/global competence. CS.01 Analyze how issues, trends, technologies and public policies impact	
	cs.03 Examine and summarize the importance of health, safety and environmental management systems in AFNR workplaces. FPP.01	

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	Develop and implement procedures to ensure safety, sanitation and quality in food product and processing facilities.	
	FPP.02 Apply principles of nutrition, biology, microbiology, chemistry and human behavior to the development of food Products.	
	FPP.04 Explain the scope of the food industry and the historical and current developments of food product and processing.	
Unit 5 Preference and Product Availability and The Safety of Our Food	BS.02 Demonstrate proficiency by safely applying appropriate laboratory skills to complete tasks in a biotechnology research and development environment (e.g., standard operating procedures, record keeping, aseptic technique, equipment maintenance, etc.)	
	BS.03 Demonstrate the application of biotechnology to solve problems in AFNR systems (e.g., bioengineering, food processing, waste management, horticulture, forestry, livestock, crops, etc.).	
	CRP.02 Apply appropriate academic and technical skills.	
	CRP.04 Communicate clearly, effectively and with reason.	
	CRP.06 Demonstrate creativity and innovation.	
	CRP.07 Employ valid and reliable research strategies.	
	CRP.12 Work productively in teams while using cultural/global competence.	

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