



FUEL UP TO PLAY 60 AND S.T.E.A.M.

Through the use of Science, Technology, Engineering, Agriculture and Mathematics, students can gain access points to develop critical thinking, reasoning, teamwork, investigative skills and knowledge of agriculture. The core elements of Fuel Up to Play 60 integrate the characteristics of S.T.E.A.M. and provide a framework for students to be competitive in the 21st-century workforce and become leaders in technical innovation and productivity.

Characteristics of S.T.E.A.M.	FUTP 60 Fundamentals					
	Playbook	Ambassadors	Student Teams	Mini-Lessons	Challenges	Get the Word Out
Real-World Issues: Addresses real social, economic and environmental problems and seeks solutions	X			X		
Engineering Design Process: Defines problems, conducts research, develops multiple hypotheses for solutions, tests, evaluates and redesigns	X	X		X	X	
Open-Ended Exploration: Examine possible solutions through hands-on, collaborative activities	X		X	X	X	X
Productive Teamwork: Fosters a sense of purpose, creativity, accomplishment and a spirit that team members need one another to solve problems	X	X	X	X	X	X
Rigorous Math and Science Content: Connects to content from all aspects of life and adds relevance to content	X			X	X	
Multiple Right Answers: Reframes failure, promotes creative solutions and encourages different approaches	X	X		X	X	X
Emphasis on Agriculture: Integrates plant and animal science, and provides a meaningful application to meet the demands of a changing world	X			X		

FUTP 60 Fundamental Definitions:

- **Playbook:** Nutritious Eating and Physical Activity strategies that can help make long-term changes in the school environment.
- **Ambassadors:** Student leaders who work with an adult supporter to rally other students and commit to leading nutritious, sustainable changes in their school environments.
- **Student Teams:** Groups of students who work together to make nutritious, sustainable changes in a school environment.
- **Mini-Lessons:** Activities designed to provide instruction to implement nutrition and physical activity changes within a school environment.
- **Challenges:** Quick actions students can take to help make long-term sustainable changes in their school environment.
- **Get the Word Out:** Actions students can take to promote FUTP 60 in a school environment and in the community.

S.T.E.A.M. Definitions:

- **Science:** The study of the physical and natural world through observations and experiments
- **Technology:** Products made by humans to meet a want or need (pencils and chairs count!)
- **Engineering:** The design process used to solve a problem
- **Agriculture:** The science of cultivating soil, producing crops and raising livestock
- **Math:** The language of numbers, shapes and quantities

*We have incorporated "Agriculture" into our definition of S.T.E.A.M.

Characteristics of S.T.E.A.M.	Examples
Real-World Issues: Addresses real social, economic and environmental problems and seeks solutions	<ul style="list-style-type: none"> • Food: Waste Less and Enjoy! It's Good for All of Us • Nourish Your Community • Food Insecurity Mini-Lesson
Engineering Design Process: Defines problems, conducts background research, develops multiple hypotheses for solutions, tests, evaluates and redesigns	<ul style="list-style-type: none"> • Playbook • Mini-Lessons • Challenges
Open-Ended Exploration: Examines possible solutions through hands-on, collaborative activities	<ul style="list-style-type: none"> • Challenges • Get the Word Out • Playbook
Productive Teamwork: Fosters a sense of purpose, creativity, accomplishment and a spirit that team members need one another to solve problems	<ul style="list-style-type: none"> • Leadership Mini-Lesson • Student Teams Mini-Lesson
Rigorous Math and Science Content: Connects to content from all aspects of life and adds relevance to content	<ul style="list-style-type: none"> • S.T.E.A.M. activities related to FUTP 60 Plays can be explored and integrated into physical education, math, science, and technology lessons • The Learning Connection Mini-Lesson
Multiple Right Answers: Reframes failure, promotes creative solutions and encourages different approaches	<ul style="list-style-type: none"> • It's All About Your Choices - Go Nutritious • FUTP 60 Fundamentals
Emphasis on Agriculture: Integrates plant and animal science and provides a meaningful application to meet the demands of a changing world	<ul style="list-style-type: none"> • Farm to School — Know Your Food • Exposure to agriculture workforce careers in S.T.E.A.M. fields through the Playbook