

# Standards Correlations

## Manufacturing Systems I

8425 (36 weeks) or 8426 (18 weeks)

Task	SOL Correlation	ITEEA National Standards	TSA Competitive Events
<b>Demonstrating Personal Qualities and Abilities</b>			
Demonstrate creativity and innovation.	English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*,		

Task	SOL Correlation	ITEEA National Standards	TSA Competitive Events
	PS.3*, PS.4*, PS.7*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1		
Demonstrate critical thinking and problem solving.	English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8, A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9, AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1		
Demonstrate initiative and self-direction.	English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4,		

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	8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1		
Demonstrate integrity.	English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1		
Demonstrate work ethic.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1		
<b>Demonstrating Interpersonal Skills</b>			
Demonstrate conflict-resolution skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1		

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
	History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1		
Demonstrate listening and speaking skills.	English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1		
Demonstrate respect for diversity.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1		
Demonstrate customer service skills.	English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1		
Collaborate with team members	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1		

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
	History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1		
<b>Demonstrating Professional Competencies</b>			
Demonstrate big-picture thinking.	English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1		
Demonstrate career- and life-management skills.	English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4		
Demonstrate continuous learning and adaptability.	English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8		

Task	SOL Correlation	ITEEA National Standards	TSA Competitive Events
	History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1		
Manage time and resources.	English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8		
Demonstrate information-literacy skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5,		

Task	SOL Correlation	ITEEA National Standards	TSA Competitive Events
	11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1		
Demonstrate an understanding of information security.	English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: COM.10		
Maintain working knowledge of current information-technology (IT) systems.	English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9		

Task	SOL Correlation	ITEEA National Standards	TSA Competitive Events
	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17 Science: BIO.1, CH.1, ES.1, PH.1		
Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1		
Apply mathematical skills to job-specific tasks.	English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1		

Task	SOL Correlation	ITEEA National Standards	TSA Competitive Events
	Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1		
Demonstrate professionalism.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1		
Demonstrate reading and writing skills.	English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: 6.1, PH.1, PS.1		

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
Demonstrate workplace safety.	English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1		
<b>Examining All Aspects of an Industry</b>			
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16		
Examine aspects of management within an industry/organization.			
Examine aspects of financial responsibility within an industry/organization.			
Examine technical and production skills required of workers within an industry/organization.			
Examine principles of technology that underlie an industry/organization.			
Examine labor issues related to an industry/organization.	History and Social Science: GOVT.16		

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
Examine community issues related to an industry/organization.	History and Social Science: GOVT.16		
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16		
<b>Addressing Elements of Student Life</b>			
Identify the purposes and goals of the student organization.			
Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.			
Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.			
Identify Internet safety issues and procedures for complying with acceptable use standards.			
<b>Exploring Work-Based Learning</b>			

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
Identify the types of work-based learning (WBL) opportunities.			
Reflect on lessons learned during the WBL experience.			
Explore career opportunities related to the WBL experience.			
Participate in a WBL experience, when appropriate.			
<b>Introducing Manufacturing Systems</b>			
Research careers in manufacturing.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8  History and Social Science: GOVT.8, GOVT.14, GOVT.15, VUS.8, VUS.13, VUS.14, WG.17, WHII.8	19. Manufacturing Technologies	Essays on Technology  Technology Bowl
Differentiate among types of manufacturing.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: VUS.8, WHII.8	4. The Cultural, Social, Economic, and Political Effects of Technology  19. Manufacturing Technologies	Essays on Technology
Demonstrate metrology used in manufacturing.	Science: CH.1, ES.1	4. The Cultural, Social, Economic, and Political Effects of Technology	Computer Integrated Manufacturing (CIM)

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
		19. Manufacturing Technologies	
Explain the importance of manufacturing.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: VUS.8, VUS.13, VUS.14, WG.17, WHII.14	1. The Characteristics and Scope of Technology  6. The Role of Society in the Development and Use of Technology  7. The Influence of Technology on History	
Explain the effect of supply and demand on manufacturing.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: GOVT.14, GOVT.15, VUS.8, WHII.4, WHII.8	6. The Role of Society in the Development and Use of Technology  7. The Influence of Technology on History  19. Manufacturing Technologies	
Describe societal, economic, and environmental effects of manufacturing.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: VUS.8, VUS.13, VUS.14, WG.17, WHII.8, WHII.14  Science: PH.4	4. The Cultural, Social, Economic, and Political Effects of Technology  5. The Effects of Technology on the Environment  6. The Role of Society in the Development and Use of Technology	Essays on Technology

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
Describe societal, economic, and environmental influences on manufacturing.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: VUS.8, VUS.13, VUS.14 Science: PH.4	4. The Cultural, Social, Economic, and Political Effects of Technology  5. The Effects of Technology on the Environment  6. The Role of Society in the Development and Use of Technology	Essays on Technology
Explain considerations of green, or clean, manufacturing.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: VUS.14, WG.17, WHII.14	4. The Cultural, Social, Economic, and Political Effects of Technology  5. The Effects of Technology on the Environment  6. The Role of Society in the Development and Use of Technology	Essays on Technology
Assess the product life cycle.	English: 9.5, 10.5, 11.5, 12.5	6. The Role of Society in the Development and Use of Technology  9. Engineering Design  11. Apply the Design Process	
<b>Understanding the History of Manufacturing</b>			

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
Outline the history of manufacturing.	English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7  History and Social Science: VUS.8, VUS.13, VUS.14, WG.17, WHII.8, WHII.14	1. The Characteristics and Scope of Technology  19. Manufacturing Technologies	Essays on Technology  Technology Bowl
Describe the development of U.S. manufacturing.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: VUS.8, VUS.13, VUS.14	1. The Characteristics and Scope of Technology  19. Manufacturing Technologies	Essays on Technology  Technology Bowl
Predict future manufacturing trends.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: VUS.8, VUS.13, VUS.14, WG.17, WHII.8, WHII.14	1. The Characteristics and Scope of Technology  19. Manufacturing Technologies	Essays on Technology
<b>Practicing Safety</b>			
Use required personal protective equipment (PPE).	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: VUS.8, WHII.8  Science: CH.1	12. Use and Maintain Technological Products and Systems	
Implement a safety plan.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: VUS.8, WHII.8	12. Use and Maintain Technological Products and Systems	
Maintain safe working practices in the production laboratory.	English: 9.5, 10.5, 11.5, 12.5	12. Use and Maintain Technological Products and Systems	

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
	History and Social Science: GOVT.16, VUS.8, VUS.14, WHII.8, WHII.14  Science: CH.1		
Operate lab equipment according to instructor guidelines.	History and Social Science: VUS.8, VUS.14, WHII.8, WHII.14	12. Use and Maintain Technological Products and Systems	
<b>Exploring Materials and Processes</b>			
Describe additive processes.	English: 9.5, 10.5, 11.5, 12.5	2. The Core Concepts of Technology  19. Manufacturing Technologies	Computer Integrated Manufacturing (CIM)
Describe subtractive processes.	English: 9.5, 10.5, 11.5, 12.5	2. The Core Concepts of Technology  19. Manufacturing Technologies	
Distinguish among materials used in the manufacturing process.	English: 9.5, 10.5, 11.5, 12.5	2. The Core Concepts of Technology  3. The Relationships Among Technologies and the Connections Between Technology and Other Fields  19. Manufacturing Technologies	Technology Bowl

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
Differentiate among properties of materials.	English: 9.5, 10.5, 11.5, 12.5  Science: PH.1	2. The Core Concepts of Technology  3. The Relationships Among Technologies and the Connections Between Technology and Other Fields  19. Manufacturing Technologies	Technology Bowl
Classify methods of altering materials.	English: 9.5, 10.5, 11.5, 12.5	12. Use and Maintain Technological Products and Systems  19. Manufacturing Technologies	Technology Bowl
Demonstrate methods of altering materials.		12. Use and Maintain Technological Products and Systems	Computer Integrated Manufacturing (CIM)  Dragster Design  Transportation Modeling
Demonstrate methods of combining materials.		12. Use and Maintain Technological Products and Systems	Computer Integrated Manufacturing (CIM)  Transportation Modeling
Use materials to make a product.		12. Use and Maintain Technological Products and Systems	Computer Integrated Manufacturing (CIM)

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
		19. Manufacturing Technologies	
<b>Understanding Production Processes</b>			
Explain the product-development process.	English: 9.6, 9.7, 9.8, 10.6, 10.7, 10.8, 11.6, 11.7, 11.8, 12.6, 12.7, 12.8  Mathematics: AFDA.8, PS.8*  Science: PH.4	8. The Attributes of Design  10. The Role of Troubleshooting, Research and Development, Invention and Innovation, and Experimentation in Problem Solving	Animatronics
Describe the engineering design process.	English: 10.3, 10.5, 11.3, 11.5, 12.5  Science: PH.1	8. The Attributes of Design  9. Engineering Design  10. The Role of Troubleshooting, Research and Development, Invention and Innovation, and Experimentation in Problem Solving  11. Apply the Design Process	Dragster Design  Engineering Design
Apply technology to produce a prototype.	English: 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6  Science: PH.1, PH.2	8. The Attributes of Design  10. The Role of Troubleshooting, Research and Development, Invention and Innovation, and	Computer Integrated Manufacturing (CIM)  Transportation Modeling

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
		Experimentation in Problem Solving  19. Manufacturing Technologies	
Use the engineering design process to plan production.	Science: PH.1	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields  8. The Attributes of Design	Computer Integrated Manufacturing (CIM)  Dragster Design  Engineering Design  Transportation Modeling
Describe the stages/processes of tooling up for production.	English: 9.5, 10.5, 11.5, 12.5	8. The Attributes of Design  19. Manufacturing Technologies	
Describe production planning in manufacturing.	English: 9.5, 10.5, 11.5, 12.5	19. Manufacturing Technologies	Computer Integrated Manufacturing (CIM)  Technology Bowl
Describe rapid prototyping/modeling.	English: 9.5, 10.5, 11.5, 12.5	9. Engineering Design  11. Apply the Design Process	Computer Integrated Manufacturing (CIM)
Evaluate the process and the prototype.		2. The Core Concepts of Technology	Computer Integrated Manufacturing (CIM)

Task	SOL Correlation	ITEEA National Standards	TSA Competitive Events
		10. The Role of Troubleshooting, Research and Development, Invention and Innovation, and Experimentation in Problem Solving  11. Apply the Design Process  12. Use and Maintain Technological Products and Systems  19. Manufacturing Technologies	
<b>Demonstrating Manufacturing Processes</b>			
Participate in a production line activity.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: VUS.8, WHII.8	12. Use and Maintain Technological Products and Systems  19. Manufacturing Technologies	Computer Integrated Manufacturing (CIM)  Transportation Modeling
Evaluate the production process.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: VUS.8, WHII.8	12. Use and Maintain Technological Products and Systems  13. Assess the Impact of Products and Systems	

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
		19. Manufacturing Technologies	
<b>Exploring Business Concepts</b>			
Identify the three basic forms of business ownership.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: GOVT.14, GOVT.15	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields  4. The Cultural, Social, Economic, and Political Effects of Technology  19. Manufacturing Technologies	Technology Bowl
Explain the effect of corporate citizenship.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: GOVT.3, GOVT.16	4. The Cultural, Social, Economic, and Political Effects of Technology  6. The Role of Society in the Development and Use of Technology	
Identify levels of management.	English: 9.5, 10.5, 11.5, 12.5	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields  19. Manufacturing Technologies	

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
Describe the effect of labor and human resources issues on manufacturing.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: GOVT.14, GOVT.15, VUS.8, WG.7, WG.14, WG.15, WHII.8	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields  19. Manufacturing Technologies	Essays on Technology
Identify the parts of a marketing plan.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields  19. Manufacturing Technologies	Promotional Design
Explain fiscal responsibilities associated with operating a successful enterprise.	English: 9.5, 10.5, 11.5, 12.5	4. The Cultural, Social, Economic, and Political Effects of Technology  6. The Role of Society in the Development and Use of Technology  19. Manufacturing Technologies	
<b>Exploring Green Manufacturing</b>			
Exercise environmentally conscious manufacturing.	History and Social Science: GOVT.14, GOVT.15, VUS.14, WG.16, WG.17, WHII.14	4. The Cultural, Social, Economic, and Political Effects of Technology	Computer-Aided Design (CAD), Engineering

<b>Task</b>	<b>SOL Correlation</b>	<b>ITEEA National Standards</b>	<b>TSA Competitive Events</b>
		5. The Effects of Technology on the Environment  19. Manufacturing Technologies	
Explain environmental considerations when designing a product.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: VUS.14, WG.16, WG.17, WHII.14	5. The Effects of Technology on the Environment  9. Engineering Design	Computer Integrated Manufacturing (CIM)
Identify energy efficiency, conservation, and pollution prevention.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: GOVT.14, GOVT.15, VUS.14, WG.4, WG.16, WG.17, WHII.14	4. The Cultural, Social, Economic, and Political Effects of Technology  5. The Effects of Technology on the Environment	Essays on Technology