

# Standards Correlations

8431 - 36 weeks / 8432 - 18 weeks

Task	SOL Correlations
<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*, 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, 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>Task</b>	<b>SOL Correlations</b>
<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 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 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 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, 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

Task	SOL Correlations
	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 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 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
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>Task</b>	<b>SOL Correlations</b>
<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
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	

<b>Task</b>	<b>SOL Correlations</b>
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>	
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>Competency</b>	<b>SOL Correlations</b>	<b>STEL Correlations</b>	<b>TSA Correlations</b>
<b>Demonstrating Lab Safety</b>			
Justify all safety rules and procedures associated with construction and laboratory activities.	English: 10.1, 10.5, 11.1, 11.5, 12.1, 12.5  History and Social Science: Govt 9, 15	STEL 2	Technology Bowl
Demonstrate safety in the laboratory.	English: 10.5, 11.5, 12.5	STEL 3	

Competency	SOL Correlations	STEL Correlations	TSA Correlations
	History and Social Science: Govt 9, 15 Science: CH.1		
<b>Exploring Types of Structures</b>			
Describe how structures evolved from ancient times to the present.	English: 10.5, 11.5, 12.5  History and Social Science: WHII 10, 11; VUS 10, 11	STEL 6	Technology Bowl
Categorize structures and infrastructure as residential, commercial, industrial, institutional, transportation, and public works projects.	English: 10.1, 10.5, 11.1, 11.5, 12.1, 12.5  History and Social Science: Govt 9, 15	STEL 3	<ul style="list-style-type: none"> <li>• CAD Architecture</li> <li>• Architectural Design</li> <li>• Geospatial Technology</li> <li>• Technology Bowl</li> </ul>
Identify construction techniques for transportation and public works.	English: 10.5, 11.5, 12.5  History and Social Science: Govt 9, 15	STEL 8	<ul style="list-style-type: none"> <li>• Transportation Modeling</li> <li>• Geospatial Technology</li> <li>• Technology Bowl</li> </ul>
Explain why public utilities are constructed.	English: 10.5, 11.5, 12.5  History and Social Science: Govt 9, 15	STEL 4	<ul style="list-style-type: none"> <li>• Geospatial Technology</li> <li>• Technology Bowl</li> </ul>
Describe the features of a given public utility.	English: 10.5, 11.5, 12.5  History and Social Science: Govt 9, 15	STEL 2	<ul style="list-style-type: none"> <li>• Geospatial Technology</li> <li>• Technology Bowl</li> </ul>
Illustrate a public utility.	English: 10.1, 11.1, 12.1  History and Social Science: Govt 9, 15	STEL 8	Geospatial Technology

<b>Competency</b>	<b>SOL Correlations</b>	<b>STEL Correlations</b>	<b>TSA Correlations</b>
Describe bridges.	English: 10.5, 11.5, 12.5  History and Social Science: Govt 9, 15	STEL 3	<ul style="list-style-type: none"> <li>• Geospatial Technology</li> <li>• Technology Bowl</li> </ul>
Create a model of a fixed bridge.	English: 10.1, 11.1, 12.1  Mathematics: A.1, A.4, AII.3, MA.7	STEL 7, STEL 8	Architectural Design
Describe considerations for planning and designing roads.	English: 10.5, 11.5, 12.5  History and Social Science: Govt 9, 15  Mathematics: A.1, A.4	STEL 7	Geospatial Technology
Explore trends in construction of buildings.	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8  History and Social Science: Govt 9, 15	STEL 3	<ul style="list-style-type: none"> <li>• Technology Bowl</li> <li>• CAD Architecture</li> </ul>
<b>Examining the Impacts of Construction</b>			
Assess the impacts of structures on individuals, families, and communities.	English: 10.5, 11.5, 12.5	STEL 4	Geospatial Technology
Analyze the cycles of the built environment.	English: 10.5, 11.5, 12.5	STEL 3	<ul style="list-style-type: none"> <li>• CAD Architecture</li> <li>• Architectural Design</li> </ul>
Describe the impacts of public works construction.	English: 10.5, 11.5, 12.5  History and Social Science: Govt 9, 15	STEL 4	Technology Bowl
Prepare a presentation on a structure's impact.	English: 10.1, 10.5, 11.1, 11.5, 12.1, 12.5	STEL 4	Geospatial Technology
<b>Investigating Careers Associated with Construction</b>			

<b>Competency</b>	<b>SOL Correlations</b>	<b>STEL Correlations</b>	<b>TSA Correlations</b>
Research careers associated with construction.	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8	STEL 3	Technology Bowl
Deliver a presentation on career research.	English: 10.1, 11.1, 12.1  Mathematics: COM.12	STEL 3	<ul style="list-style-type: none"> <li>• Prepared Presentation</li> <li>• Geospatial Technology</li> <li>• STEM Careers</li> </ul>
<b>Exploring Preconstruction</b>			
Summarize preconstruction activities for construction systems.	English: 10.5, 11.5, 12.5  History and Social Science: Govt 9, 15	STEL 8	<ul style="list-style-type: none"> <li>• Geospatial Technology</li> <li>• Technology Bowl</li> </ul>
Identify aspects of construction planning.	English: 10.5, 11.5, 12.5  History and Social Science: Govt 9, 15	STEL 8	<ul style="list-style-type: none"> <li>• Geospatial Technology</li> <li>• Technology Bowl</li> </ul>
Create documents necessary for the construction process.	English: 10.1, 11.1, 12.1	STEL 8	<ul style="list-style-type: none"> <li>• CAD Architecture</li> <li>• Geospatial Technology</li> <li>• Technology Bowl</li> </ul>
Document a site layout.	English: 10.6, 10.7, 11.6, 11.7, 12.6, 12.7  History and Social Science: Govt 9, 15  Science: ES.1	STEL 8	<ul style="list-style-type: none"> <li>• Geospatial Technology</li> <li>• Technology Bowl</li> </ul>
Perform a site survey.	English: 10.1, 11.1, 12.1	STEL 8	Technology Bowl
Interpret construction plans and symbols.	English: 10.5, 11.5, 12.5	STEL 3	<ul style="list-style-type: none"> <li>• Architectural Design</li> <li>• Geospatial Design</li> <li>• Technology Bowl</li> </ul>
<b>Exploring Construction Processes</b>			
Identify construction materials and their properties.	English: 10.5, 11.5, 12.5	STEL 3	Technology Bowl

<b>Competency</b>	<b>SOL Correlations</b>	<b>STEL Correlations</b>	<b>TSA Correlations</b>
Identify construction activities.	English: 10.5, 11.5, 12.5	STEL 3	Technology Bowl
Analyze a construction schedule.	English: 10.5, 11.5, 12.5  History and Social Science: Govt 9, 15	STEL 8	<ul style="list-style-type: none"> <li>• Architectural Design</li> <li>• Technology Bowl</li> </ul>
Analyze the estimation process for a construction project.	English: 10.5, 11.5, 12.5	STEL 5	Architectural Design
Build a structure, using standard construction techniques.	Mathematics: A.1, A.4, A.6, G.3, G.8, T.8	STEL 8	<ul style="list-style-type: none"> <li>• Architectural Design</li> <li>• Technology Bowl</li> </ul>
Compute units of measurement common in areas of construction.	Mathematics: A.1, A.4, A.6, G.3, G.8, T.8	STEL 3	Technology Bowl
Identify occupancy activities.	English: 10.5, 11.5, 12.5  History and Social Science: Govt 9, 15	STEL 8	Technology Bowl
<b>Investigating Evolving Technologies in Construction</b>			
Describe the use of evolving technologies in construction.	English: 10.5, 11.5, 12.5	STEL 3	<ul style="list-style-type: none"> <li>• Technology Bowl</li> <li>• Essays on Technology</li> </ul>
Research an evolving technology for construction.	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8	STEL 3	<ul style="list-style-type: none"> <li>• Prepared Presentation</li> <li>• STEM Careers</li> </ul>