

# Standards Correlations

## Biomedical Technician (8347)

Task	SOL Correlations	HOSA Competitive Events (High School)
<b>Demonstrating Personal Qualities and Abilities</b>		
Demonstrate creativity and innovation.	<p>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</p> <p>History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1</p> <p>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*</p> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1</p>	
Demonstrate critical thinking and problem solving.	<p>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,</p>	

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	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	

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	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 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	

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	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	

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	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 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	

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	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,	

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	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>Examining All Aspects of an Industry</b>		
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16	

<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
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.		



<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
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>		
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>Exploring Foundations in Biomedical Technology</b>		
Explain the evolving role of biotechnology in medicine.	English: 11.5, 12.5  Science: BIO.4, BIO.5h, BIO.5i, BIO.5j	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> </ul>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul> <b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• HOSA Bowl</li> </ul> <b>Recognition</b> <ul style="list-style-type: none"> <li>• Health Care Issues Exam</li> </ul>
Explain the scientific method.	English: 11.5, 12.5 History and Social Science: WHII.4 Mathematics: G.1, PS.1* Science: BIO.1, CH.1, ES.2, PH.1	<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul> <b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• HOSA Bowl</li> </ul>
Maintain records and documentation.	Mathematics: COM.1, PS.1*	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>

<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
Demonstrate technical writing.	<p>English: 11.6, 11.7, 12.6, 12.7</p> <p>History and Social Science: WHII.4</p> <p>Science: BIO.1, CH.1, PH.1</p>	<p><b>Health Science Events</b></p> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <p><b>Health Professions Events</b></p> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> <li>• Clinical Specialty</li> </ul>
Explain the importance of communication skills in biomedical technology.	<p>English: 11.5, 12.5</p> <p>History and Social Science: GOVT.16</p>	<p><b>Health Science Events</b></p> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <p><b>Health Professions Events</b></p> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Perform a literature review.	<p>English: 11.5, 11.8, 12.5, 12.8</p> <p>History and Social Science: VUS.1</p> <p>Science: BIO.1j</p>	<p><b>Health Science Events</b></p> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul>
Follow instructions.	<p>English: 11.1, 11.5, 11.6, 11.7, 12.6, 12.7</p> <p>Science: BIO.1, CH.1</p>	<p><b>Health Professions Events</b></p> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>

<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
Describe state/local/industry/professional regulations.	English: 11.5, 11.8, 12.5, 12.8  History and Social Science: GOVT.8, GOVT.9	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Follow state/local/industry/professional regulations.	English: 11.5, 11.8, 12.5, 12.8  History and Social Science: GOVT.8, GOVT.9	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Follow time-management practices.	History and Social Science: GOVT.16	<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
<b>Maintaining Safe Environment</b>		
Follow protocol and safety procedures/guidelines.	English: 11.5, 12.5  History and Social Science: GOVT.8, GOVT.9  Science: BIO.1, CH.1, PH.1	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul> <b>Emergency Preparedness Events</b> <ul style="list-style-type: none"> <li>CPR/First Aid</li> </ul>
Demonstrate use of Safety Data Sheets (SDS).	<p>English: 11.5, 12.5</p> <p>History and Social Science: GOVT.8, GOVT.9</p> <p>Science: CH.1b</p>	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul> <b>Teamwork Events</b> <ul style="list-style-type: none"> <li>HOSA Bowl</li> </ul>
Identify first aid supplies, personnel, and emergency protection areas.	<p>History and Social Science: GOVT.16</p> <p>Science: CH.1, CH.1c</p>	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul> <b>Emergency Preparedness Events</b> <ul style="list-style-type: none"> <li>CPR/First Aid</li> </ul>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> <li>Life Support Skills</li> </ul>
Identify common laboratory hazards and standard precautions.	Science: CH.1, CH.1a, CH.1b, CH.1c	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Demonstrate procedures for handling and disposing of infectious and/or hazardous materials.	Science: CH.1b	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Use personal protective equipment according to regulatory agencies' specifications.	English: 11.5, 12.5  Science: CH.1, CH.1a, CH.1b	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>

<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
		<b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• HOSA Bowl</li> </ul>
Maintain safety equipment, clean work area, and clean laboratory supply storage area.	English: 11.5, 12.5 History and Social Science: GOVT.16 Science: CH.1, CH.1b	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
<b>Maintaining Quality Assurance</b>		
Explain the concepts of quality assurance and quality control.	English: 11.3, 11.5, 12.3, 12.5 History and Social Science: GOVT.8 Science: CH.1, PH.1	<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul> <b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• HOSA Bowl</li> </ul>
Perform validation testing.	Science: BIO.1, CH.1, PH.1	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Validate all results against known standards.	English: 11.5, 12.5  Science: BIO.1, BIO.1g	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Explain the concept of product-testing specifications.		<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
<b>Performing Basic Laboratory Skills</b>		
Practice aseptic techniques.		<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Perform mathematical calculations and conversions.	Mathematics: A.1, A.4, A.9, AFDA.3, AFDA.7, AII.9, COM.1, PS.2*, PS.3*, PS.4*	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul>



Task	SOL Correlations	HOSA Competitive Events (High School)
	Science: BIO.1d, BIO.1i, CH.1f, CH.1g, CH.1h, PH.2	<ul style="list-style-type: none"> <li>Medical Math</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Explain the concepts of sample and sampling technique.	English: 11.5, 12.5  Mathematics: PS.8*  Science: BIO.1, CH.1	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Explain the process for making stock reagents and solutions.	English: 11.5, 12.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> <li>Medical Math</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Make stock reagents and solutions.	Mathematics: A.1, A.4  Science: CH.1	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul>

<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
		<ul style="list-style-type: none"> <li>• Medical Math</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Monitor, adjust, and maintain physical properties of a solution/reagent.	Science: CH.4c, CH.4d	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> <li>• Medical Math</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Sterilize reagents and equipment.	English: 11.5, 12.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Make and dispense culture media.	English: 11.5, 12.5  Mathematics: A.1, A.4	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul>

<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
		<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Conduct and maintain inventory of laboratory supplies.	Science: BIO.1, CH.1	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Install equipment.	English: 11.5, 12.5	<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> <li>• Clinical Specialty</li> </ul>
Perform routine equipment maintenance.	English: 11.5, 12.5	<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> <li>• Clinical Specialty</li> </ul>
Use basic weighing and measuring techniques.	Mathematics: A.1, A.4  Science: CH.1, CH.4c, PH.1	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> <li>• Medical Math</li> </ul>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Use the scientific method when performing research.	English: 11.5, 11.8, 12.5, 12.8  Mathematics: G.1  Science: BIO.1, CH.1, ES.1	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> <li>• Medical Math</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Perform basic separation techniques.		<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Perform statistical analysis of data.	Mathematics: PS.1*, PS.17, PS.19, PS.2*, PS.4*  Science: BIO.1, CH.1, PH.1	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> <li>• Medical Math</li> </ul>

<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
		<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
<b>Performing Basic Microbiology Skills</b>		
Perform microscopy and vital stain preparation.	Science: BIO.1	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Identify basic structures of microorganisms and cells.	Science: BIO.3, BIO.4c	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Quantify microorganisms and cells.		<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Explain the concept of a pure culture.	English: 11.5, 12.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Isolate and store pure cultures.		<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Explain the concept of fermentation.	English: 11.5, 12.5  Science: BIO.4	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• HOSA Bowl</li> </ul>
Perform fermentation.		<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Clinical Specialty</li> </ul>
Explain the concept of harvesting cells.	English: 11.5, 12.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul> <b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• HOSA Bowl</li> </ul>
Identify hosts and life cycles of microorganisms.	Science: BIO.4	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>

<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
<b>Performing Cell Culture Techniques</b>		
Perform bioassays.		<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Clinical Specialty</li> </ul>
Explain isolation of cell lines.	English: 11.5, 12.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Propagate plant and/or animal tissue.		<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Clinical Specialty</li> </ul>
<b>Performing Molecular Biology Techniques</b>		



<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
Perform nucleic acid sequencing procedures.	Mathematics: AII.5, COM.13  Science: BIO.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> <li>• Clinical Specialty</li> </ul>
Explain specific nucleic acid sequences.	English: 11.5, 12.5  Science: BIO.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Explain the role of DNA testing in forensic science and genetics.	English: 11.5, 11.8, 12.5, 12.8  Science: BIO.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Isolate nucleic acids.		<b>Health Science Events</b>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Perform restriction digests.		<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> <li>• Clinical Specialty</li> </ul>
Perform gel electrophoresis.	Science: BIO.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Label nucleic acids.	Science: BIO.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> </ul>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
Use a sequence database.	Mathematics: COM.1	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul>
<b>Applying Chemical Techniques for Biological Analysis</b>		
Explain basic cloning techniques.	English: 11.5, 12.5  Science: BIO.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>Medical Spelling</li> <li>Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>Biomedical Laboratory Science</li> </ul> <b>Teamwork Events</b> <ul style="list-style-type: none"> <li>HOSA Bowl</li> </ul>

Task	SOL Correlations	HOSA Competitive Events (High School)
Explain the concept of proteins.	English: 11.5, 12.5  Science: BIO.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul> <b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• HOSA Bowl</li> </ul>
Explain specific proteins and toxins.		<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul> <b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• HOSA Bowl</li> </ul>
Perform protein detection and separation techniques.	English: 11.3, 11.5, 12.3, 12.5  Science: BIO.5, BIO.2b	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Describe advanced protein detection and separation techniques.	English: 11.5, 12.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
<b>Exploring Professional Choices</b>		
Examine professional ethical standards for biomedical technology.	English: 11.5, 12.5 History and Social Science: WHI.1 Science: BIO.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Medical Spelling</li> <li>• Medical Terminology</li> <li>• Knowledge Test: Medical Law and Ethics</li> </ul> <b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Explain the importance of confidentiality in the biomedical technology field.	English: 11.5, 12.5	<b>Health Science Events</b> <ul style="list-style-type: none"> <li>• Knowledge Test: Medical Law and Ethics</li> </ul> <b>Health Professions Events</b>

<b>Task</b>	<b>SOL Correlations</b>	<b>HOSA Competitive Events (High School)</b>
		<ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul> <b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• Biomedical Debate</li> </ul>
Describe tests for employability in the biomedical technology field.	English: 11.5, 12.5	<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul>
Explore career pathways in biomedical technology.	English: 11.5, 11.8, 12.5, 12.8	<b>Health Professions Events</b> <ul style="list-style-type: none"> <li>• Biomedical Laboratory Science</li> </ul> <b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• Health Career Display</li> </ul>
Prepare an oral report for presentation.	English: 11.1, 11.8, 12.1, 12.8	<b>Teamwork Events</b> <ul style="list-style-type: none"> <li>• Public Service Announcement</li> </ul>