

# Standards Correlations

## Radiologic Technology (8375)

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

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

Task	SOL Correlations
	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 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

Task	SOL Correlations
	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

<b>Task</b>	<b>SOL Correlations</b>
	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
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>
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 the World of Radiologic Technology</b>	
Trace the historical development of radiology.	<p>English: 11.5, 12.5</p> <p>History and Social Science: VUS.8, VUS.9, VUS.10, VUS.11, WHII.10, WHII.11</p> <p>HOSA Competitive Events (High School):</p> <ul style="list-style-type: none"> <li>o Teamwork Events</li> <li>o HOSA Bowl</li> </ul>

<b>Task</b>	<b>SOL Correlations</b>
Identify by name and abbreviation the leading professional organizations for medical imaging.	English: 11.5, 12.5
<b>Developing Effective Communication and Patient Care Skills</b>	
Adapt communication and patient skill techniques for diverse populations.	English: 11.5, 12.5 History and Social Science: GOVT.3, GOVT.11
Describe the essentials for patient/radiologic technologist interaction.	English: 11.5, 12.5 History and Social Science: GOVT.3, GOVT.11, GOVT.16
Describe the essentials for interactions among the multidisciplinary healthcare team.	English: 11.5, 12.5 History and Social Science: GOVT.16 HOSA Competitive Events (High School): Health Science Events o Knowledge Test: Medical Law and Ethics o Knowledge Test: Transcultural Health Care
Perform patient-related and administrative documentation.	English: 11.6, 11.7, 12.6, 12.7 HOSA Competitive Events (High School): Health Science Events o Knowledge Test: Medical Law and Ethics
<b>Using Medical Terminology</b>	
Explain commonly used prefixes, roots, and suffixes in medical terminology.	English: 11.3, 12.3 History and Social Science: WHI.5, WHI.6 HOSA Competitive Events (High School):

<b>Task</b>	<b>SOL Correlations</b>
	Health Science Events <ul style="list-style-type: none"> <li>• Knowledge Test: Medical Law and Ethics</li> </ul>
Explain medical terminology commonly used in radiologic technology.	English: 11.3, 12.3  HOSA Competitive Events (High School) Health Science Events <ul style="list-style-type: none"> <li>o Medical Terminology</li> </ul> Teamwork Events <ul style="list-style-type: none"> <li>o HOSA Bowl</li> </ul>
Use medical terminology in communication with medical professionals.	English: 11.3, 12.3  HOSA Competitive Events (High School): Health Science Events <ul style="list-style-type: none"> <li>o Medical Terminology</li> </ul> Teamwork Events <ul style="list-style-type: none"> <li>o HOSA Bowl</li> </ul>
<b>Understanding Human Anatomy and Physiology</b>	
Identify the basic structural levels of body organization, anatomical structure, and body cavities.	English: 11.5, 12.5  History and Social Science: WHII.4  Science: BIO.4  HOSA Competitive Events (High School): Health Science Events <ul style="list-style-type: none"> <li>o Medical Terminology</li> </ul> Teamwork Events <ul style="list-style-type: none"> <li>o HOSA Bowl</li> </ul>
Identify chemical components of the body.	English: 11.5, 12.5

Task	SOL Correlations
	Science: BIO.4, CH.4  HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the cell.	English: 11.5, 12.5  Science: BIO.5  HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of tissues, membranes, and glands.	English: 11.5, 12.5  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the integumentary system.	English: 11.5, 12.5  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the skeletal system.	English: 11.5, 12.5  Science: BIO.4

Task	SOL Correlations
	HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the muscular system.	English: 11.5, 12.5  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the cardiovascular system.	English: 11.5, 12.5  History and Social Science: WHII.4  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the respiratory system.	English: 11.5, 12.5  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the nervous system.	English: 11.5, 12.5  Science: BIO.4

Task	SOL Correlations
	HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the urinary system.	English: 11.5, 12.5  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the male and female reproductive systems.	English: 11.5, 12.5  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the lymphatic system, including the concept of immunity.	English: 11.5, 12.5  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events o HOSA Bowl
Identify the structures and functions of the gastrointestinal system.	English: 11.5, 12.5  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events

Task	SOL Correlations
	<ul style="list-style-type: none"> <li>o HOSA Bowl</li> </ul>
Identify the structures and functions of the endocrine system.	English: 11.5, 12.5  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events <ul style="list-style-type: none"> <li>o HOSA Bowl</li> </ul>
Identify the structures and functions of the sensory system.	English: 11.5, 12.5  Science: BIO.4  HOSA Competitive Events (High School): Teamwork Events <ul style="list-style-type: none"> <li>o HOSA Bowl</li> </ul>
<b>Applying Critical Thinking and Problem Solving in the Healthcare Setting</b>	
Identify the qualities of a critical thinker.	English: 11.5, 12.5  HOSA Competitive Events (High School): Teamwork Events <ul style="list-style-type: none"> <li>o Biomedical Debate</li> <li>o Creative Problem Solving</li> </ul>
Demonstrate basic critical-thinking skills.	English: 11.5, 12.5  History and Social Science: GOVT.1  HOSA Competitive Events (High School): Teamwork Events <ul style="list-style-type: none"> <li>o Biomedical Debate</li> <li>o Creative Problem Solving</li> </ul>

English: 11.5,

<b>Task</b>	<b>SOL Correlations</b>
Apply critical-thinking skills to healthcare situations.	English: 11.5, 12.5  History and Social Science: GOVT.1  HOSA Competitive Events (High School): Teamwork Events <ul style="list-style-type: none"> <li>o Creative Problem Solving</li> </ul>
Identify the steps in the problem-solving process.	English: 11.5, 12.5  Science: BIO.1  HOSA Competitive Events (High School): Teamwork Events <ul style="list-style-type: none"> <li>o Creative Problem Solving</li> </ul>
Apply the problem-solving process to the healthcare setting.	English: 11.5, 12.5  History and Social Science: GOVT.1  HOSA Competitive Events (High School): Teamwork Events <ul style="list-style-type: none"> <li>o Creative Problem Solving</li> </ul>
<b>Applying Legal, Ethical, and Professional Responsibilities to Clinical Practice</b>	
Describe the organization and operation of a radiology department.	English: 11.5, 12.5
Explain the importance of Health Insurance Portability and Accountability Act of 1996 (HIPAA).	English: 11.5, 12.5  History and Social Science: GOVT.9  HOSA Competitive Events (High School): Health Science Events

Task	SOL Correlations
	<ul style="list-style-type: none"> <li>o Knowledge Test: Medical Law and Ethics</li> </ul>
<p>Explain legalities governing radiologic technology practice.</p>	<p>English: 11.5, 12.5</p> <p>History and Social Science: GOVT.9</p> <p>HOSA Competitive Events (High School): Health Science Events</p> <ul style="list-style-type: none"> <li>o Knowledge Test: Medical Law and Ethics</li> </ul>
<p>Explain ethical issues related to radiologic technology practice.</p>	<p>English: 11.5, 12.5</p> <p>History and Social Science: GOVT.3, GOVT.11, GOVT.16</p> <p>HOSA Competitive Events (High School): Health Science Events</p> <ul style="list-style-type: none"> <li>o Knowledge Test: Medical Law and Ethics</li> </ul>
<p>Describe the influence of government agencies on the delivery of health care.</p>	<p>English: 11.5, 12.5</p> <p>History and Social Science: VUS.13, VUS.14</p> <p>HOSA Competitive Events (High School): Health Science Events</p> <ul style="list-style-type: none"> <li>o Knowledge Test: Medical Law and Ethics</li> </ul>
<p>Research career opportunities and the education, credentials, and responsibilities associated with each.</p>	<p>English: 11.5, 11.8, 12.5, 12.8</p> <p>HOSA Competitive Events (High School): Teamwork Events</p> <ul style="list-style-type: none"> <li>o Health Career Display</li> </ul>