

Standards Correlations

Health Informatics (8338)

Task	SOL Correlations
Demonstrating Personal Qualities and Abilities	
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

Task	SOL Correlations
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
Demonstrating Interpersonal Skills	
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
Demonstrating Professional Competencies	
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

Task	SOL Correlations
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 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

Task	SOL Correlations
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
Examining All Aspects of an Industry	

Task	SOL Correlations
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
Addressing Elements of Student Life	

Task	SOL Correlations
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.	
Exploring Work-Based Learning	
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.	

Task	SOL Correlations
Describing the History of Health Information Technology (IT) in the United States	
Describe the background of today's health IT landscape.	English: 10.5, 11.5, 12.5
Discuss legal issues in medicine.	English: 10.1, 11.1, 12.1 History and Social Sciences: Govt 9, 15
Describe the progression of health IT in the United States.	English: 10.5, 11.5, 12.5 History and Social Sciences: Govt 9, 15
Introducing the Electronic Health Record (EHR)	
Define electronic health record (EHR).	English: 10.3, 11.3, 12.3 Mathematics: PS.1*, PS.2*, PS.3*, PS.4*, COM.16, AFDA.6
Explain the core functions of an EHR.	English: 10.5, 11.5, 12.5
Identify different formats and components of an EHR.	English: 10.5, 11.5, 12.5
Explain how billing codes are used in an EHR system.	English: 10.5, 11.5, 12.5
Compare health information systems.	English: 10.5, 11.5, 12.5
Identify the benefits of EHR.	English: 10.5, 11.5, 12.5
Propose strategies to minimize major barriers to the adoption of EHR.	English: 10.1, 10.5, 11.1, 11.5, 12.5
Explain the principles of healthcare data exchange and healthcare data standards.	English: 10.5, 11.5, 12.5
Understanding Ethical and Privacy Issues in Health Care	
Identify the principles of ethics in health care.	English: 10.5, 11.5, 12.5

Task	SOL Correlations
	History and Social Sciences: Govt 9, 15
Discuss the role of ethics and professional values in healthcare delivery.	English: 10.1, 11.1, 12.1 History and Social Sciences: Govt 9, 15
Differentiate between security, confidentiality, and privacy.	English: 10.3, 10.5, 11.3, 11.5, 12.3, 12.5
Identify concepts related to copyright, public domain, copy protection, intellectual property, and licensing agreements.	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: Govt 9, 15
Define ethical implications in health care.	English: 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: Govt 9, 15
Investigate Internet privacy issues and computer crimes, including identity theft.	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: Govt 9, 15
Comply with copyright and patent laws.	English: 10.5, 11.5, 12.5 History and Social Sciences: Govt 9, 15
Comply with policies regarding acceptable use of technology.	English: 10.5, 11.5, 12.5
Exploring Medical Terminology	
Explain how medical terms are developed.	English: 10.5, 11.5, 12.5
Define common medical word roots.	English: 10.3, 11.3, 12.3
Define common medical word prefixes.	English: 10.3, 11.3, 12.3

Task	SOL Correlations
Define common medical word suffixes.	English: 10.3, 11.3, 12.3
Demonstrate pronunciation of medical terms.	English: 10.1, 10.5, 11.1, 11.5, 12.1, 12.5
Apply the components of medical terminology (i.e., prefixes, word roots, and suffixes).	English: 10.3, 11.3, 12.3
Explain medical terms and acronyms related to each of the major body systems.	English: 10.5, 11.5, 12.5
Define commonly used healthcare terms.	English: 10.3, 10.5, 11.3, 11.5, 12.3, 12.5
Identify the purpose and uses of pertinent healthcare terminologies in the EHR.	English: 10.3, 10.5, 11.3, 11.5, 12.3, 12.5
Apply healthcare terminology to the various health information technology roles.	English: 10.5, 11.5, 12.5
Identify medical abbreviations related to pathological conditions.	English: 10.5, 11.5, 12.5
Explain medical abbreviations related to the documentation of diagnoses and procedures.	English: 10.5, 11.5, 12.5
Identify medical abbreviations related to pharmacology.	English: 10.5, 11.5, 12.5
Identify abbreviations related to healthcare regulations and regulatory systems.	English: 10.5, 11.5, 12.5
Define key healthcare terms.	English: 10.5, 11.5, 12.5

Task	SOL Correlations
Describe paradigm shifts in health care.	English: 10.5, 11.5, 12.5
Describe the medical model of health care in the United States.	English: 10.5, 11.5, 12.5
Describe the organization and structures of health insurance.	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: Govt 9, 15
Compare the function of federal agencies.	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: Govt 7, 9, 15
Describe the organization of public health in the United States at the federal, state, and local levels.	English: 10.5, 11.5, 12.5 History and Social Sciences: Govt 7, 8, 9, 15
Describe the implementation of the Health Information Technology for Economic and Clinical Health (HITECH) Act.	English: 10.5, 11.5, 12.5 History and Social Sciences: Govt 9, 15
Describe the major processes of information gathering, analysis, and documentation used by clinicians to detect, understand, and prevent or treat diseases.	English: 10.5, 11.5, 12.5
Examining Information Technology in Health Care	
Describe general functions, purposes, and benefits of	English: 10.5, 11.5, 12.5

Task	SOL Correlations
health information systems in various healthcare settings.	
Identify correct terminology for computing and technology.	English: 10.5, 11.5, 12.5
Identify commonly used hardware components.	English: 10.5, 11.5, 12.5 Mathematics: COM.16
Identify commonly used software applications and operating systems (OS).	English: 10.5, 11.5, 12.5
Identify programming languages applicable to the healthcare industry.	English: 10.5, 11.5, 12.5
Explain databases.	English: 10.5, 11.5, 12.5
Describe network computing.	English: 10.5, 11.5, 12.5
Identify security risks and protection measures for computing systems.	English: 10.5, 11.5, 12.5
Explain a software information system (such as an EHR).	English: 10.5, 11.5, 12.5
Working with Health IT Systems	
Identify components of health IT systems' ancillary services.	English: 10.5, 11.5, 12.5
Identify root causes of health IT-induced error and potential solutions.	English: 10.5, 11.5, 12.5
Evaluate the strengths and weaknesses of identified solutions to health IT problems.	English: 10.5, 11.5, 12.5

Task	SOL Correlations
Outline usability in relation to health IT.	English: 10.3, 10.6, 10.7, 11.3, 11.6, 11.7, 12.3, 12.6, 12.7
Differentiate between security, confidentiality, and privacy.	English: 10.3, 10.5, 11.3, 11.5, 12.3, 12.5
Simulate beginning-level competency in general health IT system use.	English: 10.5, 11.5, 12.5
Configuring Electronic Health Records (EHRs)	
Describe the process of migration to an EHR.	English: 10.5, 11.5, 12.5
Describe the migration path from a paper health record to an EHR.	English: 10.5, 11.5, 12.5
Identify tools used for decision support systems.	English: 10.5, 11.5, 12.5
Identify an EHR system to achieve features required for meaningful use.	English: 10.5, 11.5, 12.5
Identify clinical workflows.	English: 10.5, 11.5, 12.5
Describe concepts of privacy and security as applied to the EHR.	English: 10.1, 11.1, 12.1
Describe security issues with mobile and medical devices.	English: 10.5, 11.5, 12.5
Describe planning for disaster preparedness and recovery related to the EHR.	English: 10.5, 11.5, 12.5
Investigating Cybersecurity in Health Care	
Define <i>cybersecurity</i> as it relates to health care.	English: 10.3, 11.3, 12.3

Task	SOL Correlations
Identify the cybersecurity practices in health care.	English: 10.5, 11.5, 12.5
Identify security issues related to computer hardware, software, and data.	English: 10.5, 11.5, 12.5
Identify concepts of cybersecurity, honesty, courtesy, and confidentiality related to information and email systems and social networking (e.g., spam, viruses, email etiquette).	English: 10.5, 11.5, 12.5
Identify guidelines for disposal of data.	English: 10.5, 11.5, 12.5
Identify the rationale for data encryption.	English: 10.5, 11.5, 12.5
Exploring Laws and Requirements Regarding Data Breaches	
Identify different types of data breaches.	English: 10.3, 10.5, 11.3, 11.5, 12.3, 12.5
Describe penalties related to data breaches.	English: 10.5, 11.5, 12.5 History and Social Sciences: Govt 9, 15
Identify client notification protocols related to data breaches.	English: 10.5, 11.5, 12.5
Describe the risk assessment process for breaches.	English: 10.5, 11.5, 12.5
Identify protocols related to the reporting of breaches.	English: 10.5, 11.5, 12.5
Understanding Usability and Human Factors	

Task	SOL Correlations
Explain a systems approach to usability and human factors as it applies to health IT.	English: 10.5, 11.5, 12.5
Explain the cognitive consequences of health IT on clinical performance.	English: 10.5, 11.5, 12.5
Identify the consequences of suboptimal design in the delivery of health care.	English: 10.5, 11.5, 12.5
Use ergonomic principles in the design of the workplace/workstation.	English: 10.3, 11.3, 12.3
Evaluate various types of errors.	English: 10.5, 11.5, 12.5
Identify technology input methods, given different technology uses, user populations, and contexts.	English: 10.5, 11.5, 12.5
Exploring Public Health IT	
Develop a health IT action plan.	English: 10.5, 11.5, 12.5
Describe how EHRs can be used to improve public health services and practices.	English: 10.5, 11.5, 12.5
Identify credentialing options for health IT professionals.	English: 10.3, 10.5, 11.3, 11.5, 12.3, 12.5
Prepare a career portfolio with résumé.	English: 10.5, 10.6, 10.7, 11.5, 11.6, 11.7, 12.5, 12.6, 12.7