Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
101 List common causes of accidents and injuries in a computer facility.  102 Wear personal protective equipment.  103 List and identify safety hazard symbols.  104 Review Material Safety Data Sheets (MSDS) and explain their requirements in handling hazardous materials.  105 Describe types of fire extinguishers and explain which types to use for extinguishing various fires.  106 Demonstrate safe procedures to follow when lifting and carrying heavy objects.  107 Describe the importance of safety as it relates to environmental issues.  108 Identify potential hazards when working with power supplies.  109 Identify proper disposal procedures for batteries and display devices.  110 Identify and prevent Electro Static Discharge conditions.  111 Identify and prevent Electro Static Discharge conditions.  112 Describe the meaning and importance of the Energy Star Rating System.  113 Configure a computer's power management settings to maximize energy efficiency.  114 Maintaining a safe work area to avoid common accidents and injuries	CAREER CLUSTER 1: Arts, AV Technology and Communications Career Cluster Choose Standards) 1-2-3-4-5-6 PATHWAYS INCLUDE: A. Telecommunications Career Pathway Choose Standards) 1-2-3  CAREER CLUSTER 2: Information Technology Choose Standards) 1-2-3-4-5-6-7-8-9-10 PATHWAYS INCLUDE: Information Support and Services Career Pathway Choose Standards) 1-2-3-4-5-6-7-8-9-10 Network Systems Career Pathway Choose Standards) 1-2-3-4-5 Programming and Software Development Career Pathway Choose Standards) 1-2-3-4-5 Programming and Software Development Career Pathway Choose Standards) 1-2-3-4-5-6-7-8-9-10	KEY IDEAS/DETAILS (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10. A  • Standard CC.3.5.9-10. A  • Standard CC.3.5.11-12 A Cite specific textual evidence, etc  • Standard CC.3.5.9-10 B  • Standard CC.3.5.11-12. B Determine the central ideas or conclusions of a text; etc.  • Standard CC.3.5.9-10.C  • Standard CC.3.5.11-12.C Follow precisely a complex multistep procedure, etc CRAFT & STRUCTURE (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10. D  • Standard CC.3.5.9-10. E  • Standard CC.3.5.11-12.D Determine the meaning of symbols, key terms, and other domain-specific words.  • Standard CC.3.5.9-10.E  • Standard CC.3.5.11-12.E Analyze the structure of the relationships among concepts in a text, etc.  • Standard CC.3.5.11-12.F Analyze the author's purpose in providing an explanation, describing a procedure and Analyze the structure of the relationships among concepts in a text.  INTEGRATE KNOWLEDGE & IDEAS (FOR GRADES 9-10)  • Standard CC.3.5.9-10.G Translate quantitative or technical information expressed in a text into	Subjects - Standard 3.0	Standard 2.0

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
	Web and Digital Communications Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10  NOTE: Refer to the Common Core Technical Standards Booklet if you wish to add more Pathways, for your local area.	Standard CC.3.5.9-10. H Assess the reasoning in a text to support the author's claim for solving a technical problem.  Standard CC.3.5.9-10. I Compare and contrast findings presented in a text to those from other sources, etc. INTEGRATE KNOWLEDGE & IDEAS FOR GRADES 11-12  Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formats to solve a problem.  Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I Synthesize info. from a range of sources into a coherent understanding. RANGE OF READING (FOR GRADES 9-10-11-12)  Standard CC.3.5.9-10.J Standard CC.3.5.11-12.J By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.		

	Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
201 202 203 204 205 206 207 208 209 210 211	DEMONSTRATE KNOWLEDGE OF COMPUTER HARDWARE  Categorize storage devices and backup media. Categorize the different types of computer cases. Explain motherboard components, types and features. Categorize power supplies types and characteristics. Explain the purpose and characteristics of CPUs and their features. Explain cooling methods and devices. Compare and contrast memory types, characteristics and their purpose. Distinguish between the different display devices and their characteristics. Summarize the function and types of adapter cards. Install and configure peripherals and input devices.	CAREER CLUSTER 1: Arts, AV Technology and Communications Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAYS INCLUDE: A. Telecommunications Career Pathway (Choose Standards) 1-2-3  CAREER CLUSTER 2: Information Technology (Choose Standards) 1-2-3-4-5-6-7-8-9-10 PATHWAYS INCLUDE: Information Support	Technical Subjects	Writing for Technical	STANDARD AREA: NUMBERS AND OPERATIONS (FOR H.S.) Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems. Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multi-step problems. Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. Standard 2.1.HS.F.6 Extend the knowledge of
214	personal computer components.  Given a scenario, detect problems, troubleshoot, and repair/replace desk top and laptop computer components.  Given a scenario, diagnose and repair common printer issues.	and Services Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10 Network Systems Career Pathway (Choose Standards) 1-2-3-4-5 Programming and Software Development Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10	relationships among concepts in a text, etc.  • Standard CC.3.5.9-10.F  • Standard CC.3.5.11-12.F  Analyze the author's purpose in providing an explanation, describing a procedure and Analyze the structure of the relationships among concepts in a text.  INTEGRATE KNOWLEDGE & IDEAS (FOR GRADES 9-10)  • Standard CC.3.5.9-10.G  Translate quantitative or technical information expressed in a text into visual form (e.g., a table or chart).		arithmetic operations and apply to complex numbers.

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
	Web and Digital Communications Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10  NOTE: Refer to the Common Core Technical Standards Booklet if you wish to add more Pathways, for your local area.	Standard CC.3.5.9-10. H Assess the reasoning in a text to support the author's claim for solving a technical problem.  Standard CC.3.5.9-10. I Compare and contrast findings presented in a text to those from other sources, etc.  INTEGRATE KNOWLEDGE & IDEAS FOR GRADES 11-12  Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formats to solve a problem.  Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I Synthesize info. from a range of sources into a coherent understanding.  RANGE OF READING (FOR GRADES 9-10-11-12)  Standard CC.3.5.9-10.J Standard CC.3.5.11-12.J By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.		

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
300 DEMONSTRATE KNOWLEDGE OF TROUB  301 Describe and explain the troubleshooting theory.  302 Describe and explain and interpret common hardware and operating system symptoms and their causes.  303 Describe and determine the troubleshooting methods and tools for printers.  304 Describe and interpret common laptop issues and determine the appropriate basic troubleshooting method.  305 Given a scenario, integrate common preventative maintenance techniques.  306 Compare and contrast network troubleshooting with hardware/software troubleshooting.	Standards	Standard 3.5		
	Web and Digital	information expressed in a text into visual form (e.g., a table or chart).		

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
	Communications Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10  NOTE: Refer to the Common Core Technical Standards Booklet if you wish to add more Pathways, for your local area.	Standard CC.3.5.9-10. H Assess the reasoning in a text to support the author's claim for solving a technical problem.  Standard CC.3.5.9-10. I Compare and contrast findings presented in a text to those from other sources, etc. INTEGRATE KNOWLEDGE & IDEAS FOR GRADES 11-12  Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formats to solve a problem.  Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I Synthesize info. from a range of sources into a coherent understanding. RANGE OF READING (FOR GRADES 9-10-11-12)  Standard CC.3.5.9-10.J Standard CC.3.5.11-12.J By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.		

**CCS Standards For Reading for** 

**CCS Standards For** 

**CCS Standards** 

**Common Career** 

401 Compare and contrast the different Operating Systems and their features  Arts, AV Technology and Communications  (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10. A  OPE		
402 Given a scenario, demonstrate proper use of user interfaces.  403 Explain the process and steps to install and configure an operating system.  404 Explain the basics of boot sequences, methods and startup utilities.  405 Select the appropriate commands and options to troubleshoot and resolve problems.  406 Differentiate between various operating system directory structures.  407 Identify and use system utilities/tools and evaluate the results.  408 Evaluate and resolve common OS and software issues.  409 Explain the administration of local users, groups and institute local security policy.  410 Commerce and contract a pattwork operating system of interfaces.  408 Evaluate and resolve common OS and software issues.  409 Explain the process and steps to install and configure an operating system.  400 Explain the process and steps to install and configure an operating system.  401 Explain the basics of boot sequences, methods and startup utilities.  402 Given a scenario, demonstrate proper use of user interfaces.  403 Explain the process and steps to install and configure an operating system.  405 Select the appropriate commands and options to troubleshoot and resolve problems.  406 Differentiate between various operating system directory structures.  407 Identify and use system utilities/tools and evaluate the results.  408 Evaluate and resolve common OS and software issues.  409 Explain the administration of local users, groups and institute local security policy.  409 Explain the administration of local users, groups and institute local security policy.  400 Explain the process and steps to install and configure an operating system of textual evidence, etc.  5tandard CC.3.5.9-10.B  5tandard CC.3.5.9-10.B  5tandard CC.3.5.9-10.B  5tandard CC.3.5.9-10.B  5tandard CC.3.5.9-10.B  5tandard CC.3.5.9-10.D  5tandard CC.3.5.9-10.D  5tandard CC.3.5.9-10.D  6tandard CC.3.5.9-10.B  7th Mark Cuture.  7th Commercial to a text; etc.  8tandard CC.3.5.9-10.B  9tandard CC.3.5.9-10.B  9tandard CC.3.5.9-10.B  9tandard CC.3.5.9	Compare and contrast the different Operating Systems and their features. Given a scenario, demonstrate proper use of user interfaces. Explain the process and steps to install and configure in operating system. Explain the basics of boot sequences, methods and teartup utilities. Elect the appropriate commands and options to coubleshoot and resolve problems. Differentiate between various operating system irrectory structures. Elentify and use system utilities/tools and evaluate the esults. Evaluate and resolve common OS and software issues. Explain the administration of local users, groups and institute local security policy. Compare and contrast a network operating system	STANDARY AREA.  NUMBERS AND OPERATIONS (FOR H.S.)  Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.  Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multi-step problems.  Standard 2.1.HS.F.5 Choose a level of accurace appropriate to limitation on measurement when reporting quantities.  Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations an apply to complex numbers.  Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations an apply to complex numbers.

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
	Communications Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10  NOTE: Refer to the Common Core Technical Standards Booklet if you wish to add more Pathways, for your local area.	Standard CC.3.5.9-10. H Assess the reasoning in a text to support the author's claim for solving a technical problem.  Standard CC.3.5.9-10. I Compare and contrast findings presented in a text to those from other sources, etc. INTEGRATE KNOWLEDGE & IDEAS FOR GRADES 11-12  Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formats to solve a problem.  Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I Synthesize info. from a range of sources into a coherent understanding. RANGE OF READING (FOR GRADES 9-10-11-12)  Standard CC.3.5.11-12.J By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.	RESEARCH (FOR GRADES 9-10-11-12)  • Standard CC.3.6.9-10.F  • Standard CC.3.6.11-12.F Conduct short and more sustained research to answer a question or solve a problem.  • Standard CC.3.6.9- 10.G.  • Standard CC.3.6.11- 12.G Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.  • Standard CC.3.6.9-10.H. • Standard CC.3.6.11- 12.H. Draw evidence from informational texts to support analysis, reflection, and research. RANGE OF WRITING (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10.I & • Standard CC.3.5.9-10.I  Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	

CCS Standards For Reading for

**CCS Standards For** 

**CCS Standards** 

**Common Career** 

With Unit and Task Numbers:  Technical Core Standards	Cubicota Standard 26	For Mathematics Standard 2.0					
	Startage a Die	Standard 2.0					
500 DEMONSTRATE KNOWLEDGE OF NETWORK TECHNOLOGIES							
501 Explain the function of common networking protocols, such as FTP, TCP/IP suite, DHCP, DNS, etc.  502 Identify commonly used TCP and UDP default ports, including TCP ports: FTP – 20, 21, SSH – 22, TELNET – 23, HTTP – 80, etc.  503 Identify the following address formats, including IPv6, IPv4, MAC addressing.  504 Given a scenario, evaluate the proper use of addressing technologies and addressing schemes, including: Subnetting: Classful vs. classless, NAT, PAT, SNAT, Public vs. private, DHCP, Addressing schemes: Unicast, Multicast, Broadcast., etc.  505 Identify common IPv4 and IPv6 routing protocols, including Link state, Distance Vector, and Hybrid protocols.  506 Explain the purpose and properties of routing, including IGP vs. EGP, Static vs. dynamic, Next hop, interpret routing tables and how they pertain to path selection, Explain convergence (steady state).  507 Compare the characteristics of wireless communication standards, including 802.11 standards: Speeds, Distance, Channels, Frequency, Authentication and encryption.  508 Explain the purpose and properties of routing, including IGP vs. EGP, Static vs. dynamic, Next hop, interpret routing tables and how they pertain to path selection, Explain convergence (steady state).  507 Compare the characteristics of wireless communication standards, including 802.11 standards: Speeds, Distance, Channels, Frequency, Authentication and encryption.	PURPOSE (FOR GRADES 9-10-11-12)  ord CC.3.5.9-10. A  rd CC.3.5.9-10 B  rd CC.3.5.9-10 B  re the central ideas or ons of a text; etc.  rd CC.3.5.9-10.C  rd CC.3.5.11-12.C  rd CC.3.5.11-12.C  rd CC.3.5.11-12.C  rd CC.3.5.9-10.D  rd CC.3.5.9-10.D  rd CC.3.5.11-12.D  re the meaning of symbols, a, and other domainords.  rd CC.3.5.9-10.E  rd CC.3.5.9-10.E  rd CC.3.5.9-10.E  rd CC.3.5.9-10.E  rd CC.3.5.11-12.E  rd CC.3.5.9-10.E  rd CC.3.5.9-10.D  re Standard CC.3.6.9-10.B  re Standard CC.3.6.11-12.A  re Standard CC.3.6.9-10.B  re Standard CC.3.	ard 2.1.HS.F.4 nits as a way to restand problems and de the solution of estep problems. ard 2.1.HS.F.5 se a level of accuracy priate to limitations resurement when ting quantities. ard 2.1.HS.F.6 d the knowledge of metic operations and to complex					

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
	Communications Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10  NOTE: Refer to the Common Core Technical Standards Booklet if you wish to add more Pathways, for your local area.	Standard CC.3.5.9-10. H Assess the reasoning in a text to support the author's claim for solving a technical problem.  Standard CC.3.5.9-10. I Compare and contrast findings presented in a text to those from other sources, etc. INTEGRATE KNOWLEDGE & IDEAS FOR GRADES 11-12  Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formats to solve a problem.  Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I Synthesize info. from a range of sources into a coherent understanding. RANGE OF READING (FOR GRADES 9-10-11-12)  Standard CC.3.5.9-10.J Standard CC.3.5.11-12.J By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.	RESEARCH (FOR GRADES 9-10-11-12)  • Standard CC.3.6.9-10.F  • Standard CC.3.6.11-12.F  Conduct short and more sustained research to answer a question or solve a problem.  • Standard CC.3.6.9- 10.G.  • Standard CC.3.6.11- 12.G  Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.  • Standard CC.3.6.9-10.H.  • Standard CC.3.6.11- 12.H.  Draw evidence from informational texts to support analysis, reflection, and research.  RANGE OF WRITING (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10.I  &  • Standard CC.3.5.9-10.I  CFOR GRADES 9-10-11-12.I  Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	

**Common Career** 

**Secondary Competency Task List** 

**CCS Standards For Reading for** 

**CCS Standards For** 

**CCS Standards** 

	With Unit and Task Numbers:	Technical Core Standards	Technical Subjects Standard 3.5	Writing for Technical Subjects - Standard 3.6	For Mathematics Standard 2.0
<b>600</b>	DEMONSTRATE KNOWLEDGE OF NETWO	ORK MEDIA AND TOP  CAREER CLUSTER 1:	KEY IDEAS/DETAILS	TEXT TYPES AND	STANDARD AREA:
603	including: UTP, STP, Coaxial, Fiber; Plenum vs. Non-plenum Properties: Transmission speeds, Distance, Duplex, Noise immunity, Frequency.	Arts, AV Technology and Communications Career Cluster (Choose Standards)	<ul> <li>(FOR GRADES 9-10-11-12)</li> <li>Standard CC.3.5.9-10. A</li> <li>Standard CC.3.5.11-12 A</li> <li>Cite specific textual evidence, etc</li> <li>Standard CC.3.5.9-10 B</li> </ul>	PURPOSE (FOR GRADES 9-10-11-12)  • Standard CC.3.6.9-10.A  • Standard CC.3.6.11-12.A  Write arguments focused	NUMBERS AND OPERATIONS (FOR H.S.) Standard 2.1.HS.F.2
602	STP, Coaxial, and Fiber	1-2-3-4-5-6 PATHWAYS INCLUDE:	Standard CC.3.5.11-12. B     Determine the central ideas or conclusions of a text; etc.	on discipline-specific content.  • Standard CC.3.6.9-10.B	Apply properties of rational and irrational numbers to solve real
604	Given a scenario, differentiate and implement appropriate wiring standards, including 568A, 568B, and Loopback.	A. Telecommunications Career Pathway (Choose Standards) 1-2-3	• Standard CC.3.5.9-10.C • Standard CC.3.5.11-12.C Follow precisely a complex multistep procedure, etc	Standard CC.3.6.11-     12.B  Write informative or explanatory texts, including the narration of technical	world or mathematical problems.  Standard 2.1.HS.F.4  Use units as a way to understand problems and
605	properties.	CAREER CLUSTER 2:	CRAFT & STRUCTURE (FOR GRADES 9-10-11-12) • Standard CC.3.5.9-10. D	processes, etc. PRODUCTION & DIST.	to guide the solution of multi-step problems.
606	Categorize common LAN technology types and Ethernet properties: CSMA/CD, Broadcast, Collision, Bonding, Speed, Distance.	Information Technology (Choose Standards) 1-2-3-4-5-6-7-8-9-10	• Standard CC.3.5.11-12.D  Determine the meaning of symbols, key terms, and other domain-	OF WRITING- (FOR GRADES 9-10-11-12)  • Standard CC.3.6.9-10.C  • Standard CC.3.611-12 C	Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when
607	Explain common logical network topologies and their characteristics, including Peer to peer and Client/server.	PATHWAYS INCLUDE: Information Support and Services Career	<ul> <li>specific words.</li> <li>Standard CC.3.5.9-10.E</li> <li>Standard CC.3.5.11-12.E</li> <li>Analyze the structure of the</li> </ul>	-Produce clear and coherent writingappropriate to task, purpose, and audience.	reporting quantities.  Standard 2.1.HS.F.6  Extend the knowledge of arithmetic operations and
608	Install components of wiring distribution, including Vertical and horizontal cross connects, Verify installation and termination.	and Services Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10 Network Systems Career Pathway (Choose Standards) 1-2-3-4-5 Programming and Software Development Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10	relationships among concepts in a text, etc.  • Standard CC.3.5.9-10.F  • Standard CC.3.5.11-12.F  Analyze the author's purpose in providing an explanation, describing a procedure and Analyze the structure of the relationships among concepts in a text.  INTEGRATE KNOWLEDGE & IDEAS (FOR GRADES 9-10)  • Standard CC.3.5.9-10.G  Translate quantitative or technical information expressed in a text into visual form (e.g., a table or chart).	Standard CC.3.6.9-10 D     Standard CC.3.6.11-12.D     Develop and strengthen     writing as needed by     planning, revising, editing,     rewriting, or trying a new     approach, focusing on     addressing what is most     significant for a specific     purpose and audience.     Standard CC.3.6.9-10.E     Standard CC.3.6.11-12.E.     Use technology, including     the Internet, to produce,     publish, and update     individual or shared     writing products.	artinmetic operations and apply to complex numbers.

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
	Web and Digital Communications Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10  NOTE: Refer to the Common Core Technical Standards Booklet if you wish to add more Pathways, for your local area.	Standard CC.3.5.9-10. H Assess the reasoning in a text to support the author's claim for solving a technical problem.  Standard CC.3.5.9-10. I Compare and contrast findings presented in a text to those from other sources, etc.  INTEGRATE KNOWLEDGE & IDEAS FOR GRADES 11-12  Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formats to solve a problem.  Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I Synthesize info. from a range of sources into a coherent understanding.  RANGE OF READING (FOR GRADES 9-10-11-12)  Standard CC.3.5.9-10. J Standard CC.3.5.11-12. J By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.	RESEARCH (FOR GRADES 9-10-11-12)  • Standard CC.3.6.9-10.F • Standard CC.3.6.11-12.F Conduct short and more sustained research to answer a question or solve a problem. • Standard CC.3.6.9- 10.G. • Standard CC.3.6.11- 12.G Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. • Standard CC.3.6.9-10.H. • Standard CC.3.6.11- 12.H. Draw evidence from informational texts to support analysis, reflection, and research. RANGE OF WRITING (FOR GRADES 9-10-11-12) • Standard CC.3.5.9-10.I & • Standard CC.3.5.9-10.I  Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
700 DEMONSTRATE KNOWLEDGE OF NETWO  701 Install, configure and differentiate between common network connectivity devices.	CAREER CLUSTER 1: Arts, AV Technology and Communications Career Cluster	KEY IDEAS/DETAILS (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10. A  • Standard CC.3.5.11-12 A	TEXT TYPES AND PURPOSE (FOR GRADES 9-10-11-12) • Standard CC.3.6.9-10.A	STANDARD AREA:  NUMBERS AND OPERATIONS  (FOR H.S.)
<ul> <li>702 Identify the functions of specialized network devices such as, Multilayer switch, Content switch, IDS/IPS, Load balancer, Multifunction network devices, DNS server, Bandwidth shaper, Proxy server, CSU/DSU.</li> <li>703 Explain the advanced features of a switch such as, PoE, Spanning tree, VLAN, Trunking, Port mirroring, Port authentication, etc.</li> <li>704 Implement a basic wireless network, including Client configuration, Access point placement and Installation.</li> </ul>	(Choose Standards) 1-2-3-4-5-6 PATHWAYS INCLUDE: A. Telecommunications Career Pathway (Choose Standards) 1-2-3  CAREER CLUSTER 2: Information	Cite specific textual evidence, etc  • Standard CC.3.5.9-10 B  • Standard CC.3.5.11-12. B  Determine the central ideas or conclusions of a text; etc.  • Standard CC.3.5.9-10.C  • Standard CC.3.5.11-12.C  Follow precisely a complex multistep procedure, etc  CRAFT & STRUCTURE  (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10. D	Standard CC.3.6.11-12.A Write arguments focused on discipline-specific content.     Standard CC.3.6.9-10.B     Standard CC.3.6.11- 12.B Write informative or explanatory texts, including the narration of technical processes, etc. PRODUCTION & DIST. OF WRITING- (FOR	Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems. Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multi-step problems.
705 Configure appropriate encryption, Configure channels and frequencies, Set ESSID and beacon, verify installation.	Technology (Choose Standards) 1-2-3-4-5-6-7-8-9-10 PATHWAYS INCLUDE: Information Support and Services Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10 Network Systems Career Pathway (Choose Standards) 1-2-3-4-5 Programming and Software Development Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10	Standard CC.3.5.11-12.D  Determine the meaning of symbols, key terms, and other domain-specific words.  Standard CC.3.5.9-10.E  Standard CC.3.5.11-12.E  Analyze the structure of the relationships among concepts in a text, etc.  Standard CC.3.5.9-10.F  Standard CC.3.5.11-12.F  Analyze the author's purpose in providing an explanation, describing a procedure and Analyze the structure of the relationships among concepts in a text.  INTEGRATE KNOWLEDGE & IDEAS (FOR GRADES 9-10)  Standard CC.3.5.9-10.G  Translate quantitative or technical information expressed in a text into visual form (e.g., a table or chart).	GRADES 9-10-11-12)  • Standard CC.3.6.9-10.C  • Standard CC.3.6.11-12 C  -Produce clear and coherent writing appropriate to task, purpose, and audience.  • Standard CC.3.6.9-10 D  • Standard CC.3.6.11-12.D  Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.  • Standard CC.3.6.9-10.E  • Standard CC.3.6.11-12.E.  Use technology, including the Internet, to produce, publish, and update individual or shared writing products.	Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.

Web and Digital

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
	Communications Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10  NOTE: Refer to the Common Core Technical Standards Booklet if you wish to add more Pathways, for your local area.	Standard CC.3.5.9-10. H Assess the reasoning in a text to support the author's claim for solving a technical problem.  Standard CC.3.5.9-10. I Compare and contrast findings presented in a text to those from other sources, etc. INTEGRATE KNOWLEDGE & IDEAS FOR GRADES 11-12  Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formats to solve a problem.  Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I Synthesize info. from a range of sources into a coherent understanding. RANGE OF READING (FOR GRADES 9-10-11-12)  Standard CC.3.5.9-10.J Standard CC.3.5.11-12.J By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.	RESEARCH (FOR GRADES 9-10-11-12)  • Standard CC.3.6.9-10.F  • Standard CC.3.6.11-12.F Conduct short and more sustained research to answer a question or solve a problem.  • Standard CC.3.6.9-10.G  • Standard CC.3.6.11-12.G Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.  • Standard CC.3.6.9-10.H. • Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research. RANGE OF WRITING (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10.I  & • Standard CC.3.5.11-12.I. Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	

CCS Standards For Reading for

**CCS Standards For** 

**CCS Standards** 

**Common Career** 

With Unit and Task Numbers	m 1 1 1 0	Technical Subjects Standard 3.5	Writing for Technical Subjects - Standard 3.6	For Mathematics Standard 2.0
800 DEMONSTRATE KNOWLEDG		KEY IDEAS/DETAILS	TEXT TYPES AND	
<ul><li>801 Explain, compare and contrast the laye TCP/IP and OSI models.</li><li>802 Identify types of configuration manage</li></ul>	and Communications	(FOR GRADES 9-10-11-12) • Standard CC.3.5.9-10. A • Standard CC.3.5.11-12 A	PURPOSE (FOR GRADES 9-10-11-12) • Standard CC.3.6.9-10.A	STANDARD AREA: NUMBERS AND OPERATIONS (FOR H.S.)
documentation such as, Wiring schema and logical network diagrams, Baseline procedures and configurations, Regular	tics, Physical (Choose Standards) 1-2-3-4-5-6 PATHWAYS	Cite specific textual evidence, etc  • Standard CC.3.5.9-10 B  • Standard CC.3.5.11-12. B  Determine the central ideas or conclusions of a text; etc.	Standard CC.3.6.11-12.A Write arguments focused on discipline-specific content.     Standard CC.3.6.9-10.B	Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real
803 Given a scenario, evaluate the network configuration management documental Compare wiring schematics, physical a network diagrams, baselines, policies a	ion such as, nd logical Career Pathway (Choose Standards) 1-2-3	Standard CC.3.5.9-10.C     Standard CC.3.5.11-12.C     Follow precisely a complex multistep procedure, etc     CRAFT & STRUCTURE	• Standard CC.3.6.11- 12.B Write informative or explanatory texts, including the narration of technical processes, etc.	world or mathematical problems.  Standard 2.1.HS.F.4  Use units as a way to understand problems and to guide the solution of
and configurations to network devices infrastructure, Update wiring schemation logical network diagrams, configuration as needed.	es, physical and ins and job logs  Information Technology (Choose Standards)	<ul> <li>(FOR GRADES 9-10-11-12)</li> <li>Standard CC.3.5.9-10. D</li> <li>Standard CC.3.5.11-12.D</li> <li>Determine the meaning of symbols, key terms, and other domain-</li> </ul>	PRODUCTION & DIST. OF WRITING- (FOR GRADES 9-10-11-12) • Standard CC.3.6.9-10.C • Standard CC.3.611-12 C	multi-step problems.  Standard 2.1.HS.F.5  Choose a level of accuracy appropriate to limitations
804 Conduct network monitoring to identif and connectivity issues such as, packet connectivity software, load testing, three System logs, history logs, event logs.	sniffers, INCLUDE:	<ul> <li>specific words.</li> <li>Standard CC.3.5.9-10.E</li> <li>Standard CC.3.5.11-12.E</li> <li>Analyze the structure of the</li> </ul>	-Produce clear and coherent writingappropriate to task, purpose, and audience. • Standard CC.3.6.9-10 D	on measurement when reporting quantities.  Standard 2.1.HS.F.6  Extend the knowledge of arithmetic operations and
805 Explain different methods and rational performance optimization.	Pathway	relationships among concepts in a text, etc.  • Standard CC.3.5.9-10.F  • Standard CC.3.5.11-12.F  Analyze the author's purpose in providing an explanation, describing a procedure and Analyze the structure of the relationships among concepts in a text.  INTEGRATE KNOWLEDGE & IDEAS (FOR GRADES 9-10)  • Standard CC.3.5.9-10.G  Translate quantitative or technical information expressed in a text into visual form (e.g., a table or chart).	• Standard CC.3.6.11-12.D  • Standard CC.3.6.11-12.D  Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.  • Standard CC.3.6.9-10.E  • Standard CC.3.6.11-12.E.  Use technology, including the Internet, to produce, publish, and update individual or shared writing products.	apply to complex numbers.

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
	Communications Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10  NOTE: Refer to the Common Core Technical Standards Booklet if you wish to add more Pathways, for your local area.	Standard CC.3.5.9-10. H Assess the reasoning in a text to support the author's claim for solving a technical problem.  Standard CC.3.5.9-10. I Compare and contrast findings presented in a text to those from other sources, etc. INTEGRATE KNOWLEDGE & IDEAS FOR GRADES 11-12  Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formats to solve a problem.  Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I Synthesize info. from a range of sources into a coherent understanding. RANGE OF READING (FOR GRADES 9-10-11-12)  Standard CC.3.5.11-12.J By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.	RESEARCH (FOR GRADES 9-10-11-12)  • Standard CC.3.6.9-10.F  • Standard CC.3.6.11-12.F Conduct short and more sustained research to answer a question or solve a problem.  • Standard CC.3.6.9-10.G.  • Standard CC.3.6.11-12.G Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.  • Standard CC.3.6.9-10.H.  • Standard CC.3.6.9-10.H.  • Standard CC.3.6.9-10.H.  • Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research.  RANGE OF WRITING (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10.I.  & • Standard CC.3.5.9-10.I.  Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0			
800 DEMONSTRATE KNOWLEDGE OF NETW	800 DEMONSTRATE KNOWLEDGE OF NETWORK MANAGEMENT						
<ul> <li>800 DEMONSTRATE KNOWLEDGE OF NETW</li> <li>801 Explain, compare and contrast the layers of the TCP/IP and OSI models.</li> <li>802 Identify types of configuration management documentation such as, Wiring schematics, Physical and logical network diagrams, Baselines, Policies, procedures and configurations, Regulations.</li> <li>803 Given a scenario, evaluate the network based on configuration management documentation such as, Compare wiring schematics, physical and logical network diagrams, baselines, policies and procedures and configurations to network devices and infrastructure, Update wiring schematics, physical and logical network diagrams, configurations and job logs as needed.</li> <li>804 Conduct network monitoring to identify performance and connectivity issues such as, packet sniffers, connectivity software, load testing, throughput testers, System logs, history logs, event logs.</li> <li>805 Explain different methods and rationales for network performance optimization.</li> </ul>	CAREER CLUSTER 1: Arts, AV Technology and Communications Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAYS INCLUDE: A. Telecommunications Career Pathway (Choose Standards) 1-2-3  CAREER CLUSTER 2:	KEY IDEAS/DETAILS (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10. A  • Standard CC.3.5.9-10. B  • Standard CC.3.5.9-10 B  • Standard CC.3.5.9-10 B  • Standard CC.3.5.9-10. C  • Standard CC.3.5.9-10. C  • Standard CC.3.5.9-10. C  • Standard CC.3.5.1-12. C  Follow precisely a complex multistep procedure, etc  CRAFT & STRUCTURE (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10. D  • Standard CC.3.5.1-12. D  Determine the meaning of symbols, key terms, and other domain-specific words.  • Standard CC.3.5.1-12. E  Analyze the structure of the relationships among concepts in a text, etc.  • Standard CC.3.5.9-10. F  • Standard CC.3.5.9-10. F  • Standard CC.3.5.1-12. F  Analyze the author's purpose in providing an explanation, describing a procedure and Analyze the structure of the relationships among concepts in a text.  INTEGRATE KNOWLEDGE & IDEAS (FOR GRADES 9-10)  • Standard CC.3.5.9-10. G  Translate quantitative or technical	TEXT TYPES AND PURPOSE (FOR GRADES 9-10-11-12)  • Standard CC.3.6.9-10.A • Standard CC.3.6.11-12.A Write arguments focused on discipline-specific content. • Standard CC.3.6.9-10.B • Standard CC.3.6.11- 12.B Write informative or explanatory texts, including the narration of technical processes, etc. PRODUCTION & DIST. OF WRITING- (FOR GRADES 9-10-11-12) • Standard CC.3.6.9-10.C • Standard CC.3.6.9-10.C • Standard CC.3.6.11-12 C -Produce clear and coherent writingappropriate to task, purpose, and audience. • Standard CC.3.6.9-10 D • Standard CC.3.6.11-12.D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. • Standard CC.3.6.9-10.E • Standard CC.3.6.11-12.E. Use technology, including the Internet, to produce, publish, and update	STANDARD AREA: NUMBERS AND OPERATIONS (FOR H.S.) Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems. Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multi-step problems. Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.			
	Web and Digital	information expressed in a text into visual form (e.g., a table or chart).	individual or shared writing products.				

Web and Digital

Secondary Competency Task List With Unit and Task Numbers:	Common Career Technical Core Standards	CCS Standards For Reading for Technical Subjects Standard 3.5	CCS Standards For Writing for Technical Subjects - Standard 3.6	CCS Standards For Mathematics Standard 2.0
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CCS Standards For Reading for

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**Common Career** 

With Unit and Task Numbers:	Technical Core Standards	Technical Subjects Standard 3.5	Writing for Technical Subjects - Standard 3.6	For Mathematics Standard 2.0
<ul> <li>800 DEMONSTRATE KNOWLEDGE OF NETW</li> <li>801 Explain, compare and contrast the layers of the TCP/IP and OSI models.</li> <li>802 Identify types of configuration management documentation such as, Wiring schematics, Physical and logical network diagrams, Baselines, Policies, procedures and configurations, Regulations.</li> <li>803 Given a scenario, evaluate the network based on</li> </ul>	CAREER CLUSTER 1: Arts, AV Technology and Communications Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAYS INCLUDE: A. Telecommunications	KEY IDEAS/DETAILS (FOR GRADES 9-10-11-12)  • Standard CC.3.5.9-10. A  • Standard CC.3.5.11-12 A Cite specific textual evidence, etc  • Standard CC.3.5.9-10 B  • Standard CC.3.5.11-12. B Determine the central ideas or conclusions of a text; etc.  • Standard CC.3.5.9-10.C	TEXT TYPES AND PURPOSE (FOR GRADES 9-10-11-12) • Standard CC.3.6.9-10.A • Standard CC.3.6.11-12.A Write arguments focused on discipline-specific content. • Standard CC.3.6.9-10.B • Standard CC.3.6.11-	
configuration management documentation such as, Compare wiring schematics, physical and logical network diagrams, baselines, policies and procedures and configurations to network devices and infrastructure, Update wiring schematics, physical and logical network diagrams, configurations and job logs as needed.	Career Pathway (Choose Standards) 1-2-3  CAREER CLUSTER 2: Information Technology (Choose Standards) 1-2-3-4-5-6-7-8-9-10	Standard CC.3.5.11-12.C Follow precisely a complex multistep procedure, etc  CRAFT & STRUCTURE  (FOR GRADES 9-10-11-12)      Standard CC.3.5.9-10. D      Standard CC.3.5.11-12.D  Determine the meaning of symbols, key terms, and other domain-	12.B Write informative or explanatory texts, including the narration of technical processes, etc. PRODUCTION & DIST. OF WRITING- (FOR GRADES 9-10-11-12) • Standard CC.3.6.9-10.C • Standard CC.3.611-12 C	Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multi-step problems. Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when
804 Conduct network monitoring to identify performance and connectivity issues such as, packet sniffers, connectivity software, load testing, throughput testers, System logs, history logs, event logs.	PATHWAYS INCLUDE: Information Support and Services Career Pathway	<ul> <li>specific words.</li> <li>Standard CC.3.5.9-10.E</li> <li>Standard CC.3.5.11-12.E</li> <li>Analyze the structure of the relationships among concepts in a</li> </ul>	-Produce clear and coherent writingappropriate to task, purpose, and audience.  • Standard CC.3.6.9-10 D  • Standard CC.3.6.11-12.D	reporting quantities.  Standard 2.1.HS.F.6  Extend the knowledge of arithmetic operations and apply to complex
805 Explain different methods and rationales for network performance optimization.	(Choose Standards) 1-2-3-4-5-6-7-8-9-10 Network Systems Career Pathway (Choose Standards) 1-2-3-4-5 Programming and Software Development Career Pathway (Choose Standards) 1-2-3-4-5-6-7-8-9-10  Web and Digital	text, etc.  • Standard CC.3.5.9-10.F  • Standard CC.3.5.11-12.F  Analyze the author's purpose in providing an explanation, describing a procedure and Analyze the structure of the relationships among concepts in a text.  INTEGRATE KNOWLEDGE & IDEAS (FOR GRADES 9-10)  • Standard CC.3.5.9-10.G  Translate quantitative or technical information expressed in a text into visual form (e.g., a table or chart).	Standard CC.3.6.11-12.D  Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.     Standard CC.3.6.9-10.E     Standard CC.3.6.11-12.E. Use technology, including the Internet, to produce, publish, and update individual or shared writing products.	numbers.

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