![Pennsylvania Department of Education logo]

Computer Technology & Computer Systems Technology, Classification of Instructional Program (CIP) 15.1202
Units of Instruction and Task Grid Linked to Pennsylvania Core Standards

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
100. DEMONTRATE KNOWLEDGE OF PERSONAL AND ENVIRONMENTAL SAFETY.				
101. List common causes of accidents and injuries in a computer facility. 102. Wear personal protective equipment, e.g. safety glasses, hearing protection, and respiratory protection, as needed. 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 proper disposal procedures for chemical solvents and pressurized cans. 111. Describe the meaning and importance of the Energy Star Rating System. 112. Configure a computer's power management settings to maximize energy efficiency. 113. Maintaining a safe work area to avoid common accidents	**CLUSTER:** *Information Technology* Choose Cluster Standards 1-2-3-4-5-6-7-8-9-10 **4 PATHWAYS:** **Pathway 1:** *1 Installation Support & Services* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 2:** *Network Systems* Choose Standards 1-2-3-4-5 **Pathway 3:** *Programming & Software Development* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 4**	**KEY IDEAS/DETAILS FOR GRADES 9-10** **Standard CC.3.5.9-10.A.** Cite specific textual evidence, etc.... **Standard CC.3.5.9-10B &** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.9-10.C** Follow precisely a complex multistep procedure, etc... **KEY IDEAS/DETAILS FOR GRADES 11-12** **Standard CC.3.5.11-12A** Cite specific textual evidence, etc.... **Standard CC.3.5.11-12.B.** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.11-12.C.** Follow precisely a complex multistep procedure, etc... **CRAFT & STRUCTURE FOR GRADE 9-10** **Standard CC.3.5.9-10.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.9-10.E** Analyze the structure of the relationships among concepts in a text, etc.	**TEXT TYPES AND PURPOSE FOR GRADES 9-10** **Standard CC.3.6.9-10.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.9-10.B** Write informative or explanatory texts, including the narration of technical processes, etc. **TEXT TYPES AND PURPOSE FOR GRADES 11-12** **Standard CC.3.6.11-12.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.11-12.B** Write informative or explanatory texts, including the narration of technical processes, etc. **PRODUCTION & DIST. OF WRITING- GR.9-10** **Standard CC.3.6.9-10.C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 D**	**ALGEBRA 1** **Standard. 2.1.HS.F.1** Apply and extend the properties of exponents to solve problems with rational exponents. **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. **ALGEBRA II** **Standard 2.4.HS.B.2** Summarize, represent, and interpret data on two categorical and quantitative variables. **Standard CC.2.4.HS.B.4 -**

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and injuries.	*WEB & Digital Communications* Choose Standards 1-2-3-4-5-6-7-8-9-10	**Standard CC.3.5.9-10.F** Analyze the author's purpose in providing an explanation, describing a procedure... **CRAFT & STRUCTURE FOR GRADE 11-12** **Standard CC.3.5.11-12.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.11-12.E.** Analyze the structure of the relationships among concepts in a text, **Standard CC.3.5.11-12.F** Analyze the author's purpose in providing an explanation, describing a procedure... **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.3.5.9-10.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 GRADE 11-12** **Standard CC.3.5.11-12.G.** Integrate and evaluate multiple	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** Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **PRODUCTION & DIST. OF WRITING- GR.11-12 St. CC.3.6..11-12 C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 D St.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. **CC.3.6.11-12.E.**Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **"RESEARCH" FOR GRADES 9-10**	Recognize and evaluate random processes underlying statistical experiments. **Standard CC.2.4.HS.B.5** - Make inferences and justify conclusions based on sample surveys, experiments, and observational studies. **StandardCC.2.2.HS.D.1**- Interpret the structure of expressions to represent a quantity in terms of its context. **StandardCC.2.2.HS.D.2** -Write expressions in equivalent forms to solve problems. **StandardCC.2.2.HS.D.3** - Extend the knowledge of arithmetic operations and apply to polynomials. **StandardCC.2.2.HS.D.4** - Understand the relationship between zeros and factors of polynomials to make generalizations about functions and their graphs. **StandardCC.2.2.HS.D.5** - Use polynomial identities to solve problems. **StandardCC.2.2.HS.D.6** - Extend the knowledge of rational functions to rewrite in equivalent forms. **StandardCC.2.2.HS.D.7** - Create and graph equations or inequalities to describe numbers or relationships. **StandardCC.2.2.HS.D.8** -

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		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 and 11-12 Standard CC.3.5.9-10.J AND 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.	**St.CC.3.6.9-10.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.9-10.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.9-10.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **"RESEARCH" FOR GRADES 11-12 St.CC.3.6.11-12.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.11-12.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.11-12.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **RANGE OF WRITING FOR ALL GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11-**	Apply inverse operations to solve equations or formulas for a given variable. **StandardCC.2.2.HS.D.9** - Use reasoning to solve equations and justify the solution method. **StandardCC.2.2.HS.D.10** - Represent, solve and interpret equations/inequalities and systems of equations/inequalities algebraically and graphically . **CC.2.1.HS.F.3** - Apply quantitative reasoning to choose and Interpret units and scales in formulas, graphs and data displays

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			12.I. Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.	
200. DEMONSTRATE KNOWLEDGE OF COMPUTING FUNDAMENTALS.				
201. Identify the various types of computers people use in the modern world. 202. Identify computer hardware components and their functions. 203. Identify appropriate computer equipment and peripheral for a given specific situation and budget. 204. Describe the interaction between software and hardware. 205. Describe the difference between applications software and system software. 206. Identify the functions of an operating system. 207. Describe the various components of a graphical user interface based operating system. 208. Demonstrate the ability to use a graphical user interface based operating system.	**CLUSTER:** *Information Technology* Choose Cluster Standards 1-2-3-4-5-6-7-8-9-10 **4 PATHWAYS:** **Pathway 1:** *1 Installation Support & Services* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 2:** *Network Systems* Choose Standards 1-2-3-4-5 **Pathway 3:** *Programming & Software Development* Choose Standards 1-2-3-4-5-6-7-8-9-	**KEY IDEAS/DETAILS FOR GRADES 9-10** **Standard CC.3.5.9-10.A.** Cite specific textual evidence, etc.... **Standard CC.3.5.9-10B &** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.9-10.C** Follow precisely a complex multistep procedure, etc... **KEY IDEAS/DETAILS FOR GRADES 11-12** **Standard CC.3.5.11-12A** Cite specific textual evidence, etc.... **Standard CC.3.5.11-12.B.** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.11-12.C.** Follow precisely a complex multistep procedure, etc... **CRAFT & STRUCTURE FOR GRADE 9-10** **Standard CC.3.5.9-10.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.9-10.E**	**TEXT TYPES AND PURPOSE FOR GRADES 9-10** **Standard CC.3.6.9-10.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.9-10.B** Write informative or explanatory texts, including the narration of technical processes, etc. **TEXT TYPES AND PURPOSE FOR GRADES 11-12** **Standard CC.3.6.11-12.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.11-12.B** Write informative or explanatory texts, including the narration of technical processes, etc. **PRODUCTION & DIST. OF WRITING- GR.9-10** **Standard CC.3.6.9-10.C** Produce clear and coherent	

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	10 **Pathway 4** *WEB & Digital Communications* Choose Standards 1-2-3-4-5-6-7-8-9-10	Analyze the structure of the relationships among concepts in a text, etc. **Standard CC.3.5.9-10.F** Analyze the author's purpose in providing an explanation, describing a procedure... **CRAFT & STRUCTURE FOR GRADE 11-12** **Standard CC.3.5.11-12.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.11-12.E.** Analyze the structure of the relationships among concepts in a text, **Standard CC.3.5.11-12.F** Analyze the author's purpose in providing an explanation, describing a procedure... **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.3.5.9-10.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 GRADE 11-12**	writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 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** Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **PRODUCTION & DIST. OF WRITING- GR.11-12** **St. CC.3.6..11-12 C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 D** **St.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. **CC.3.6.11-12.E.**Use technology, including the Internet, to produce, publish, and update individual or shared writing	

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		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 and 11-12 Standard CC.3.5.9-10.J AND 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.	products. **"RESEARCH" FOR GRADES 9-10 St.CC.3.6.9-10.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.9-10.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.9-10.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **"RESEARCH" FOR GRADES 11-12 St.CC.3.6.11-12.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.11-12.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.11-12.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **RANGE OF WRITING**	

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			FOR ALL GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I. Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.	
300. USE PRODUCTIVITY SOFTWARE.				
301 List and describe several common application software suites. 302 Create and edit word processing documents. 303 Format text using applications software. 304 Demonstrate the ability to print documents using applications software. 305 Demonstrate how to use the appropriate tools to create and manipulate images in application software documents. 306 Format paragraphs and documents using applications software. 307 Demonstrate the use of outlining, change tracking, and language tools in common applications software. 308 Create and edit electronic spreadsheets documents. 309 Create and edit presentations using Power Point (PPT). 310 Create and edit databases such as (access).	**CLUSTER:** *Information Technology* Choose Cluster Standards 1-2-3-4-5-6-7-8-9-10 **4 PATHWAYS: Pathway 1:** *1 Installation Support & Services* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 2:** *Network Systems* Choose Standards 1-2-3-4-5 **Pathway 3:** *Programming & Software Development* Choose Standards	**KEY IDEAS/DETAILS FOR GRADES 9-10 Standard CC.3.5.9-10.A.** Cite specific textual evidence, etc.... **Standard CC.3.5.9-10B &** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.9-10.C** Follow precisely a complex multistep procedure, etc... **KEY IDEAS/DETAILS FOR GRADES 11-12 Standard CC.3.5.11-12A** Cite specific textual evidence, etc.... **Standard CC.3.5.11-12.B.** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.11-12.C.** Follow precisely a complex multistep procedure, etc... **CRAFT & STRUCTURE FOR GRADE 9-10 Standard CC.3.5.9-10.D.** Determine the meaning of symbols, key terms, and other domain-	**TEXT TYPES AND PURPOSE FOR GRADES 9-10 Standard CC.3.6.9-10.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.9-10.B** Write informative or explanatory texts, including the narration of technical processes, etc. **TEXT TYPES AND PURPOSE FOR GRADES 11-12 Standard CC.3.6.11-12.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.11-12.B** Write informative or explanatory texts, including the narration of technical processes, etc. **PRODUCTION & DIST. OF WRITING- GR.9-10**	

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	1-2-3-4-5-6-7-8-9-10 **Pathway 4** *WEB & Digital Communications* Choose Standards 1-2-3-4-5-6-7-8-9-10	specific words... **Standard CC.3.5.9-10.E** Analyze the structure of the relationships among concepts in a text, etc. **Standard CC.3.5.9-10.F** Analyze the author's purpose in providing an explanation, describing a procedure... **CRAFT & STRUCTURE FOR GRADE 11-12** **Standard CC.3.5.11-12.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.11-12.E.** Analyze the structure of the relationships among concepts in a text, **Standard CC.3.5.11-12.F** Analyze the author's purpose in providing an explanation, describing a procedure... **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.3.5.9-10.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...	**Standard CC.3.6.9-10.C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 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** Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **PRODUCTION & DIST. OF WRITING- GR.11-12** **St. CC.3.6..11-12 C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 D** **St.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. **CC.3.6.11-12.E.**Use technology, including the Internet, to produce,	

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		INTEGRATE KNOWLEDGE/ IDEAS FOR GRADE 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 and 11-12** **Standard CC.3.5.9-10.J AND 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.	publish, and update individual or shared writing products. **"RESEARCH" FOR GRADES 9-10** **St.CC.3.6.9-10.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.9-10.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.9-10.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **"RESEARCH" FOR GRADES 11-12** **St.CC.3.6.11-12.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.11-12.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.11-12.H.** - Draw evidence from informational texts to support analysis, reflection,	

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			and research. **RANGE OF WRITING FOR ALL GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.** Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.	
400. DEMONSTRATE INTERNET APPLICATIONS.				
401 Describe appropriate email etiquette. 402 Send, receive and manage email documents and attachments. 403 Identify the source of an internet document based on its URL. 404 Describe common ethical issues with downloading legal and illegal documents software. 405 Demonstrate how to use a web browser to effectively search the internet and retrieve specified information. 406 Describe common uses of cloud computing for at work, school, and home.	**CLUSTER:** *Information Technology* Choose Cluster Standards 1-2-3-4-5-6-7-8-9-10 **4 PATHWAYS: Pathway 1:** *1 Installation Support & Services* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 2:** *Network Systems* Choose Standards 1-2-3-4-5 **Pathway 3:** *Programming &*	**KEY IDEAS/DETAILS FOR GRADES 9-10 Standard CC.3.5.9-10.A.** Cite specific textual evidence, etc.... **Standard CC.3.5.9-10B &** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.9-10.C** Follow precisely a complex multistep procedure, etc... **KEY IDEAS/DETAILS FOR GRADES 11-12 Standard CC.3.5.11-12A** Cite specific textual evidence, etc.... **Standard CC.3.5.11-12.B.** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.11-12.C.** Follow precisely a complex multistep procedure, etc... **CRAFT & STRUCTURE FOR GRADE 9-10 Standard CC.3.5.9-10.D.**	**TEXT TYPES AND PURPOSE FOR GRADES 9-10 Standard CC.3.6.9-10.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.9-10.B** Write informative or explanatory texts, including the narration of technical processes, etc. **TEXT TYPES AND PURPOSE FOR GRADES 11-12 Standard CC.3.6.11-12.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.11-12.B** Write informative or explanatory texts, including the narration of technical processes, etc.	

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	Software Development Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 4** *WEB & Digital Communications* Choose Standards 1-2-3-4-5-6-7-8-9-10	Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.9-10.E** Analyze the structure of the relationships among concepts in a text, etc. **Standard CC.3.5.9-10.F** Analyze the author's purpose in providing an explanation, describing a procedure... **CRAFT & STRUCTURE FOR GRADE 11-12** **Standard CC.3.5.11-12.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.11-12.E.** Analyze the structure of the relationships among concepts in a text, **Standard CC.3.5.11-12.F** Analyze the author's purpose in providing an explanation, describing a procedure... **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.3.5.9-10.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	**PRODUCTION & DIST. OF WRITING- GR.9-10** **Standard CC.3.6.9-10.C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 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** Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **PRODUCTION & DIST. OF WRITING- GR.11-12** **St. CC.3.6..11-12 C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 D** **St.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. **CC.3.6.11-12.E**.Use	

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		other sources, etc... **INTEGRATE KNOWLEDGE/ IDEAS FOR GRADE 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 and 11-12 Standard CC.3.5.9-10.J AND 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.	technology, including the Internet, to produce, publish, and update individual or shared writing products. **"RESEARCH" FOR GRADES 9-10 St.CC.3.6.9-10.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.9-10.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.9-10.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **"RESEARCH" FOR GRADES 11-12 St.CC.3.6.11-12.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.11-12.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.11-12.H.** - Draw evidence from informational texts to	

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Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
			support analysis, reflection, and research. **RANGE OF WRITING FOR ALL GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.** Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.	
500. DEMONSTRATE KNOWLEDGE OF COMPUTER HARDWARE.				
501 Describe and categorize storage devices and backup media. 502 Explain the operation of a motherboard and its components, types and features. 503 Categorize power supplies types and characteristics. 504 Explain the purpose and characteristics of CPUs and their features. 505 Explain cooling methods and devices. 506 Compare and contrast memory types, characteristics and their purpose. 507 Explain the characteristics of various monitors, and display devices. 508 Install and configure peripherals and input devices. 509 Explain the function and types of adapter cards. 510 Install, configure and optimize laptop components and features. 511 Given a scenario, install, configure and maintain the components of a desk top computer. 512 Given a scenario, detect problems, troubleshoot, and repair/replace the components of a desk top computer. 513 Given a scenario, diagnose and repair common printer issues. 514 Calculate voltage, wattage, and capacity of power supply.	**CLUSTER:** *Information Technology* Choose Cluster Standards 1-2-3-4-5-6-7-8-9-10 **4 PATHWAYS:** **Pathway 1:** *1 Installation Support & Services* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 2:** *Network Systems* Choose Standards 1-2-3-4-5	**KEY IDEAS/DETAILS FOR GRADES 9-10 Standard CC.3.5.9-10.A.** Cite specific textual evidence, etc.... **Standard CC.3.5.9-10B &** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.9-10.C** Follow precisely a complex multistep procedure, etc... **KEY IDEAS/DETAILS FOR GRADES 11-12 Standard CC.3.5.11-12A** Cite specific textual evidence, etc.... **Standard CC.3.5.11-12.B.** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.11-12.C.** Follow precisely a complex multistep procedure, etc... **CRAFT & STRUCTURE**		

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Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
515 Explain the purpose of CPU and case fans air flow directions.	**Pathway 3:** *Programming & Software Development* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 4** *WEB & Digital Communications* Choose Standards 1-2-3-4-5-6-7-8-9-10	**FOR GRADE 9-10** **Standard CC.3.5.9-10.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.9-10.E** Analyze the structure of the relationships among concepts in a text, etc. **Standard CC.3.5.9-10.F** Analyze the author's purpose in providing an explanation, describing a procedure... **CRAFT & STRUCTURE FOR GRADE 11-12** **Standard CC.3.5.11-12.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.11-12.E.** Analyze the structure of the relationships among concepts in a text, **Standard CC.3.5.11-12.F** Analyze the author's purpose in providing an explanation, describing a procedure... **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.3.5.9-10.H.** Assess the reasoning in a text to support the author's claim for solving a technical problem.		

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
		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 GRADE 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 and 11-12 Standard CC.3.5.9-10.J AND 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.		
600. DEMONSTRATE KNOWLEDGE OF TROUBLESHOOTING, REPAIR AND MAINTENANCE.				
601 Describe and explain the troubleshooting theory. 602 Describe, explain and interpret common hardware and operating system symptoms and their causes. 603 Describe and determine the troubleshooting methods and	**CLUSTER:** *Information Technology* Choose Cluster Standards	**KEY IDEAS/DETAILS FOR GRADES 9-10 Standard CC.3.5.9-10.A.** Cite specific textual evidence, etc.... **Standard CC.3.5.9-10B &**	**TEXT TYPES AND PURPOSE FOR GRADES 9-10 Standard CC.3.6.9-10.A** Write arguments focused	

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
tools for printers. 604 Describe and interpret common laptop issues and determine the appropriate basic troubleshooting method. 605 Describe and apply common preventative maintenance techniques for computers.	1-2-3-4-5-6-7-8-9-10 **4 PATHWAYS:** **Pathway 1:** *1 Installation Support & Services* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 2:** *Network Systems* Choose Standards 1-2-3-4-5 **Pathway 3:** *Programming & Software Development* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 4** *WEB & Digital Communications* Choose Standards 1-2-3-4-5-6-7-8-9-10	Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.9-10.C** Follow precisely a complex multistep procedure, etc... **KEY IDEAS/DETAILS FOR GRADES 11-12** **Standard CC.3.5.11-12A** Cite specific textual evidence, etc.... **Standard CC.3.5.11-12.B.** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.11-12.C.** Follow precisely a complex multistep procedure, etc... **CRAFT & STRUCTURE FOR GRADE 9-10** **Standard CC.3.5.9-10.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.9-10.E** Analyze the structure of the relationships among concepts in a text, etc. **Standard CC.3.5.9-10.F** Analyze the author's purpose in providing an explanation, describing a procedure... **CRAFT & STRUCTURE FOR GRADE 11-12** **Standard CC.3.5.11-12.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.11-12.E.** Analyze the structure of the	on discipline-specific content. **Standard CC.3.6.9-10.B** Write informative or explanatory texts, including the narration of technical processes, etc. **TEXT TYPES AND PURPOSE FOR GRADES 11-12** **Standard CC.3.6.11-12.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.11-12.B** Write informative or explanatory texts, including the narration of technical processes, etc. **PRODUCTION & DIST. OF WRITING- GR.9-10** **Standard CC.3.6.9-10.C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 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** Use technology, including the Internet, to produce, publish, and update	

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
		relationships among concepts in a text, **Standard CC.3.5.11-12.F** Analyze the author's purpose in providing an explanation, describing a procedure... **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.3.5.9-10.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 GRADE 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 and 11-12**	individual or shared writing products. **PRODUCTION & DIST. OF WRITING- GR.11-12** **St. CC.3.6..11-12 C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 D St.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. **CC.3.6.11-12.E.**Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **"RESEARCH" FOR GRADES 9-10** **St.CC.3.6.9-10.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.9-10.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.9-10.H.** - Draw	

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
		Standard CC.3.5.9-10.J AND 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.	evidence from informational texts to support analysis, reflection, and research. **"RESEARCH" FOR GRADES 11-12 St.CC.3.6.11-12.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.11-12.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.11-12.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **RANGE OF WRITING FOR ALL GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.** Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.	
700. DEMONSTRATE KNOWLEDGE OF OPERATING SYSTEMS AND SOFTWARE.				
701 Compare and contrast the different operating systems and	**CLUSTER:** *Information*	**KEY IDEAS/DETAILS FOR GRADES 9-10**	**TEXT TYPES AND PURPOSE FOR**	

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
their features. 702 Given a scenario, demonstrate proper use of user interfaces. 703 Explain the process and steps to install and configure an operating system. 704 Explain the basics of boot sequences, methods and startup utilities. 705 Select the appropriate commands and options to troubleshoot and resolve problems. 706 Explain the difference between various operating system directory structures. 707 Identify and use system utilities/tools and evaluate the results. 708 Evaluate and resolve common OS (Operating System) and software issues.	*Technology* Choose Cluster Standards 1-2-3-4-5-6-7-8-9-10 **4 PATHWAYS:** **Pathway 1:** *1 Installation Support & Services* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 2:** *Network Systems* Choose Standards 1-2-3-4-5 **Pathway 3:** *Programming & Software Development* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 4** *WEB & Digital Communications* Choose Standards 1-2-3-4-5-6-7-8-9-10	**Standard CC.3.5.9-10.A.** Cite specific textual evidence, etc.... **Standard CC.3.5.9-10B &** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.9-10.C** Follow precisely a complex multistep procedure, etc... **KEY IDEAS/DETAILS FOR GRADES 11-12** **Standard CC.3.5.11-12A** Cite specific textual evidence, etc.... **Standard CC.3.5.11-12.B.** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.11-12.C.** Follow precisely a complex multistep procedure, etc... **CRAFT & STRUCTURE FOR GRADE 9-10** **Standard CC.3.5.9-10.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.9-10.E** Analyze the structure of the relationships among concepts in a text, etc. **Standard CC.3.5.9-10.F** Analyze the author's purpose in providing an explanation, describing a procedure... **CRAFT & STRUCTURE FOR GRADE 11-12** **Standard CC.3.5.11-12.D.** Determine the meaning of symbols, key terms, and other domain-	**GRADES 9-10** **Standard CC.3.6.9-10.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.9-10.B** Write informative or explanatory texts, including the narration of technical processes, etc. **TEXT TYPES AND PURPOSE FOR GRADES 11-12** **Standard CC.3.6.11-12.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.11-12.B** Write informative or explanatory texts, including the narration of technical processes, etc. **PRODUCTION & DIST. OF WRITING- GR.9-10** **Standard CC.3.6.9-10.C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 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**	

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
		specific words... **Standard CC.3.5.11-12.E.** Analyze the structure of the relationships among concepts in a text, **Standard CC.3.5.11-12.F** Analyze the author's purpose in providing an explanation, describing a procedure... **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.3.5.9-10.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 GRADE 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	Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **PRODUCTION & DIST. OF WRITING- GR.11-12 St. CC.3.6..11-12 C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 D St.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. **CC.3.6.11-12.E.**Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **"RESEARCH" FOR GRADES 9-10 St.CC.3.6.9-10.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.9-10.G**.Gather relevant information from multiple authoritative print and digital sources,	

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
		understanding . **RANGE OF READING FOR GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND 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.	following a standard format for citation. **St. CC.3.6.9-10.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **"RESEARCH" FOR GRADES 11-12 St.CC.3.6.11-12.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.11-12.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.11-12.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **RANGE OF WRITING FOR ALL GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.** Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.	
800. DEMONSTRATE KNOWLEDGE OF NETWORKING.				

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
801 Describe common types of computer networks based on their scope of coverage. 802 Describe how computer networks, telephone networks and the internet are related. 803 Define networking fundamentals, technologies, devices and protocols. 804 Describe, fabricate, and test network cables and connectors. 805 Compare and contrast various types of wired and wireless networks. 806 Demonstrate how to use the appropriate tools to troubleshoot problems of network connectivity.	**CLUSTER:** *Information Technology* Choose Cluster Standards 1-2-3-4-5-6-7-8-9-10 **4 PATHWAYS:** **Pathway 1:** *1 Installation Support & Services* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 2:** *Network Systems* Choose Standards 1-2-3-4-5 **Pathway 3:** *Programming & Software Development* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 4** *WEB & Digital Communications* Choose Standards 1-2-3-4-5-6-7-8-9-10	**KEY IDEAS/DETAILS FOR GRADES 9-10** **Standard CC.3.5.9-10.A.** Cite specific textual evidence, etc.... **Standard CC.3.5.9-10B &** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.9-10.C** Follow precisely a complex multistep procedure, etc... **KEY IDEAS/DETAILS FOR GRADES 11-12** **Standard CC.3.5.11-12A** Cite specific textual evidence, etc.... **Standard CC.3.5.11-12.B.** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.11-12.C.** Follow precisely a complex multistep procedure, etc... **CRAFT & STRUCTURE FOR GRADE 9-10** **Standard CC.3.5.9-10.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.9-10.E** Analyze the structure of the relationships among concepts in a text, etc. **Standard CC.3.5.9-10.F** Analyze the author's purpose in providing an explanation, describing a procedure... **CRAFT & STRUCTURE FOR GRADE 11-12** **Standard CC.3.5.11-12.D.**	**TEXT TYPES AND PURPOSE FOR GRADES 9-10** **Standard CC.3.6.9-10.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.9-10.B** Write informative or explanatory texts, including the narration of technical processes, etc. **TEXT TYPES AND PURPOSE FOR GRADES 11-12** **Standard CC.3.6.11-12.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.11-12.B** Write informative or explanatory texts, including the narration of technical processes, etc. **PRODUCTION & DIST. OF WRITING- GR.9-10** **Standard CC.3.6.9-10.C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 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	

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Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
		Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.11-12.E.** Analyze the structure of the relationships among concepts in a text, **Standard CC.3.5.11-12.F** Analyze the author's purpose in providing an explanation, describing a procedure... **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.3.5.9-10.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 GRADE 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.**	purpose and audience. **Standard CC.3.6.9-10.E** Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **PRODUCTION & DIST. OF WRITING- GR.11-12 St. CC.3.6..11-12 C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 D St.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. **CC.3.6.11-12.E.**Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **"RESEARCH" FOR GRADES 9-10 St.CC.3.6.9-10.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.9-10.G.**Gather relevant information from	

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
		Synthesize info. from a range of sources into a coherent understanding . **RANGE OF READING FOR GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND 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.	multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.9-10.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **"RESEARCH" FOR GRADES 11-12 St.CC.3.6.11-12.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.11-12.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.11-12.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **RANGE OF WRITING FOR ALL GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.** Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.	

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Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
900. DEMONSTRATE KNOWLEDGE OF SECURITY.				
901 Explain the ethical, legal and security issues related to handling data. 902 Identify security features including wireless encryption, and malicious software protection. 903 Identify security, password management, locking workstations, and biometrics. 904 Troubleshoot, remove and prevent viruses and malware. 905 Implement security and troubleshoot common issues. 906 Describe the ethical, security, and privacy issues involved in posting information about yourself and others on social networking sites, including blogs.	**CLUSTER:** *Information Technology* Choose Cluster Standards 1-2-3-4-5-6-7-8-9-10 **4 PATHWAYS:** **Pathway 1:** *1 Installation Support & Services* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 2:** *Network Systems* Choose Standards 1-2-3-4-5 **Pathway 3:** *Programming & Software Development* Choose Standards 1-2-3-4-5-6-7-8-9-10 **Pathway 4** *WEB & Digital Communications* Choose Standards 1-2-3-4-5-6-7-8-9-10	**KEY IDEAS/DETAILS FOR GRADES 9-10** **Standard CC.3.5.9-10.A.** Cite specific textual evidence, etc.... **Standard CC.3.5.9-10B &** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.9-10.C** Follow precisely a complex multistep procedure, etc... **KEY IDEAS/DETAILS FOR GRADES 11-12** **Standard CC.3.5.11-12A** Cite specific textual evidence, etc.... **Standard CC.3.5.11-12.B.** Determine the central ideas or conclusions of a text; etc... **Standard CC.3.5.11-12.C.** Follow precisely a complex multistep procedure, etc... **CRAFT & STRUCTURE FOR GRADE 9-10** **Standard CC.3.5.9-10.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.9-10.E** Analyze the structure of the relationships among concepts in a text, etc. **Standard CC.3.5.9-10.F** Analyze the author's purpose in providing an explanation, describing a procedure... **CRAFT & STRUCTURE**	**TEXT TYPES AND PURPOSE FOR GRADES 9-10** **Standard CC.3.6.9-10.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.9-10.B** Write informative or explanatory texts, including the narration of technical processes, etc. **TEXT TYPES AND PURPOSE FOR GRADES 11-12** **Standard CC.3.6.11-12.A** Write arguments focused on discipline-specific content. **Standard CC.3.6.11-12.B** Write informative or explanatory texts, including the narration of technical processes, etc. **PRODUCTION & DIST. OF WRITING- GR.9-10** **Standard CC.3.6.9-10.C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 D** Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on	

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		FOR GRADE 11-12 **Standard CC.3.5.11-12.D.** Determine the meaning of symbols, key terms, and other domain-specific words... **Standard CC.3.5.11-12.E.** Analyze the structure of the relationships among concepts in a text, **Standard CC.3.5.11-12.F** Analyze the author's purpose in providing an explanation, describing a procedure... **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.3.5.9-10.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 GRADE 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	addressing what is most significant for a specific purpose and audience. **Standard CC.3.6.9-10.E** Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **PRODUCTION & DIST. OF WRITING- GR.11-12** **St. CC.3.6..11-12 C** Produce clear and coherent writing ...appropriate to task, purpose, and audience. **Standard CC.3.6.9-10 D St.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. **CC.3.6.11-12.E**.Use technology, including the Internet, to produce, publish, and update individual or shared writing products. **"RESEARCH" FOR GRADES 9-10** **St.CC.3.6.9-10.F**. Conduct short and more sustained research to answer a question or solve a problem.;	

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
		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 and 11-12 Standard CC.3.5.9-10.J AND 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.	**St.CC.3.6.9-10.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.9-10.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **"RESEARCH" FOR GRADES 11-12 St.CC.3.6.11-12.F**. Conduct short and more sustained research to answer a question or solve a problem.; **St.CC.3.6.11-12.G**.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. **St. CC.3.6.11-12.H.** - Draw evidence from informational texts to support analysis, reflection, and research. **RANGE OF WRITING FOR ALL GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.** Write routinely over extended time frames and shorter time frames for a range of tasks, purposes	

Secondary Competency Task List with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
			and audiences...etc.	