



**Carpentry/Carpenter, Classification of Instructional Program (CIP) 46.0201  
Units of Instruction and Task Grid Linked to Pennsylvania Core Standards**

Secondary Competency Task Grid 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 2.1
<p><b>100 SAFETY/OCCUPATIONAL ORIENTATION.</b></p> <p>101 Identify and follow all basic safety practices and procedures.</p> <p>102 Identify and follow all lab safety practices and procedures.</p> <p>103 Identify and follow all construction industry safety practices and procedures.</p> <p>104 Follow procedures in Material Safety Data Sheets (MSDS) system.</p> <p>105 Identify and follow all OSHA safety standards at the construction site.</p> <p>106 Explain and demonstrate proper/safe rigging procedures.</p> <p>107 Demonstrate the ability to construct scaffolding.</p>	<p><b>CLUSTER:</b> <b>Architecture &amp; Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7</p> <p><b>PATHWAYS INCLUDE</b></p> <p><b>A. Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9</p> <p><b>B. Identify Other Pathways?</b></p>	<p><b>KEY IDEAS/DETAILS GRADES 9-10</b> <b>Standard CC.3.5.9-10.A.</b> Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.9-10B &amp;</b> Determine the central ideas or conclusions of a text; etc...</p> <p><b>Standard CC.3.5.9-10.C</b> Follow precisely a complex multistep procedure, etc...</p> <p><b>KEY IDEAS/DETAILS GRADES 11-12</b> <b>Standard CC.3.5.11-12A</b> Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.11-12.B.</b> Determine the central ideas or conclusions of a text; etc...</p> <p><b>Standard CC.3.5.11-12.C.</b> Follow precisely a complex multistep procedure, etc...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 9-10</b> <b>Standard CC.3.5.9-10.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.9-10.E</b></p>	<p><b>TEXT TYPES AND PURPOSE GRADES 9-10</b> <b>Standard CC.3.6.9-10.A</b> Write arguments focused on discipline specific content.</p> <p><b>Standard CC.3.6.9-10.B</b> Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p><b>TEXT TYPES AND PURPOSE GRADES 11-12</b> <b>Standard CC.3.6.11-12.A</b> Write arguments focused on discipline specific content.</p> <p><b>Standard CC.3.6.11-12.B</b> Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p><b>PRODUCTION &amp; DISTRIBUTION OF WRITING GRADES 9-10</b> <b>Standard CC.3.6.9-10.C</b> Produce clear and coherent writing...appropriate to task,</p>	

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		<p>Analyze the structure of the relationships among concepts in a text. etc.</p> <p><b>Standard CC.3.5.9-10.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 11-12</b></p> <p><b>Standard CC.3.5.11-12.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.11-12.E.</b> Analyze the structure of the relationships among concepts in a text.</p> <p><b>Standard CC.3.5.11-12.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b></p> <p><b>GRADES 9-10</b></p> <p><b>Standard CC.3.5.9-10.G.</b> Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).</p> <p><b>Standard CC.3.5.9-10.H.</b> Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p><b>Standard CC.3.5.9-10.I.</b> Compare and contrast findings presented in a text to those from other sources, etc...</p>	<p>purpose, and audience.</p> <p><b>Standard CC.3.6.9-10 D</b> 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.</p> <p><b>Standard CC.3.6.9-10.E</b> Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p><b>PRODUCTION &amp; DISTRIBUTION OF WRITING</b></p> <p><b>GRADES 11-12</b></p> <p><b>Standard CC.3.6.11-12 C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p><b>Standard CC.3.6.9-10 D</b></p> <p><b>Standard CC.3.6.11-12.D.</b> 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.</p> <p><b>Standard CC.3.6.11-12.E.</b> Use technology, including the internet, to produce,</p>	

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		<p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 11-12</b> <b>Standard CC.3.5.11-12.G.</b> Integrate and evaluate multiple sources of information presented in diverse formats... to solve a problem.</p> <p><b>Standard CC.3.5.11-12.H.</b> Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p><b>Standard CC.3.5.11-12.I.</b> Synthesize information from a range of sources into a coherent understanding.</p> <p><b>RANGE OF READING</b> <b>GRADES 9-10 and 11-12</b> <b>Standard CC.3.5.9-10.J AND</b> <b>Standard CC.3.5.11-12.J.</b> By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.</p>	<p>publish, and update individual or shared writing products.</p> <p><b>RESEARCH</b> <b>GRADES 9-10</b> <b>Standard CC.3.6.9-10.F.</b> Conduct short and more sustained research to answer a question or solve a problem.</p> <p><b>Standard CC.3.6.9-10.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p><b>Standard CC.3.6.9-10.H.</b> Draw evidence from informational texts to support analysis, reflection, and research.</p> <p><b>RESEARCH</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12.F.</b> Conduct short and more sustained research to answer a question or solve a problem.</p> <p><b>Standard CC.3.6.11-12.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p><b>Standard CC.3.6.11-12.H.</b> Draw evidence from informational texts to</p>	

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			<p>support analysis, reflection, and research.</p> <p><b>RANGE OF WRITING GRADES 9-12</b> <b>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</b></p> <p>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p> <p><b>RESEARCH TO BUILD AND PRESENT KNOWLEDGE</b> <b>Standard CC.3.6.9-12.F.</b></p> <p>Conduct short and more sustained research to answer a question or solve a problem.</p> <p><b>Standard CC.3.6.9-12.G.</b></p> <p>Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p><b>Standard CC.3.6.9-12.H.</b></p> <p>Draw evidence from informational texts to support analysis, reflection, and research.</p> <p><b>RANGE OF WRITING</b> <b>Standard CC.3.6.9-12.I.</b></p> <p>Write routinely over extended time frames and shorter time frames (a</p>	

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			single sitting) for a range of discipline specific tasks, purposes, and audiences...etc.	
<b>200 HAND TOOLS.</b>				
201 Demonstrate proper use of small hand tools. 202 Demonstrate proper use of sawing tools. 203 Demonstrate proper use of fastening tools. 204 Demonstrate proper use of measuring tools. 205 Demonstrate proper use of cutting tools. 206 Demonstrate the ability to sharpen cutting tools. 207 Demonstrate proper use of ladders. 208 Demonstrate proper use of finishing tools. 209 Demonstrate the ability to properly maintain hand tools.	<p><b>CLUSTER:</b>  <b>Architecture &amp; Construction Careers</b>            (Choose Standards)            1-2-3-4-5-6-7</p> <p><b>PATHWAYS INCLUDE</b></p> <p><b>A. Construction Careers</b>            (Choose Standards)            1-2-3-4-5-6-7-8-9</p> <p><b>B. Identify Other Pathways?</b></p>	<p><b>KEY IDEAS/DETAILS GRADES 9-10</b>  <b>Standard CC.3.5.9-10.A.</b>            Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.9-10B &amp; Standard CC.3.5.9-10.C</b>            Determine the central ideas or conclusions of a text; etc...            Follow precisely a complex multistep procedure, etc...</p> <p><b>KEY IDEAS/DETAILS GRADES 11-12</b>  <b>Standard CC.3.5.11-12A</b>            Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.11-12.B.</b>            Determine the central ideas or conclusions of a text; etc...</p> <p><b>Standard CC.3.5.11-12.C.</b>            Follow precisely a complex multistep procedure, etc...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 9-10</b>  <b>Standard CC.3.5.9-10.D.</b>            Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.9-10.E</b></p>		<p><b>Standard 2.1.HS.F.2</b>            Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p><b>Standard 2.1.HS.F.4</b>            Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p><b>Standard 2.1.HS.F.5</b>            Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p><b>Standard 2.1.HS.F.6</b>            Extend the knowledge of arithmetic operations and apply to complex numbers.</p>

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		<p>Analyze the structure of the relationships among concepts in a text. etc.</p> <p><b>Standard CC.3.5.9-10.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 11-12</b></p> <p><b>Standard CC.3.5.11-12.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.11-12.E.</b> Analyze the structure of the relationships among concepts in a text.</p> <p><b>Standard CC.3.5.11-12.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b></p> <p><b>GRADES 9-10</b></p> <p><b>Standard CC.3.5.9-10.G.</b> Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).</p> <p><b>Standard CC.3.5.9-10.H.</b> Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p><b>Standard CC.3.5.9-10.I.</b> Compare and contrast findings presented in a text to those from other sources, etc...</p>		

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<p><b>300 POWER TOOLS.</b></p>				
<p>301 Demonstrate proper use of stationary electric power tools. 302 Demonstrate proper use of pneumatic tools systems. 303 Demonstrate proper use of portable electric power tools. 304 Demonstrate proper maintenance of electric power tools. 305 Demonstrate proper maintenance of pneumatic power tools.</p>	<p><b>CLUSTER:</b> <b>Architecture &amp; Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7</p> <p><b>PATHWAYS INCLUDE</b> <b>A. Construction</b></p>	<p><b>KEY IDEAS/DETAILS</b></p>		<p><b>Standard 2.1.HS.F.2</b> Apply properties of rational and irrational numbers to solve real world or mathematical problems. <b>Standard 2.1.HS.F.4</b> Use units as a way to understand problems and to guide the solution of</p>

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	<p><b>Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9</p> <p><b>B. Identify Other Pathways?</b></p>			<p>multistep problems. <b>Standard 2.1.HS.F.5</b> Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. <b>Standard 2.1.HS.F.6</b> Extend the knowledge of arithmetic operations and apply to complex numbers.</p>
<b>400 BLUEPRINT READING .</b>		<b>GRADES 9-10</b>		
<p>401 Read and interpret blueprints.</p> <p>402 Read, interpret and comprehend standard symbols and abbreviations.</p> <p>403 Read and interpret building specifications.</p> <p>404 Read and interpret a plot plan.</p> <p>405 Read and interpret a foundation plan.</p> <p>406 Read and interpret elevation plans.</p> <p>407 Read and interpret details and section views.</p> <p>408 Read and interpret floor, wall and roof framing plans.</p> <p>409 Demonstrate the knowledge of building and zoning codes.</p> <p>410 Demonstrate knowledge of the Americans with Disabilities Act (ADA) regulations.</p>	<p><b>CLUSTER:</b> <b>Architecture &amp; Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7</p> <p><b>PATHWAYS INCLUDE</b></p> <p><b>A. Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9</p> <p><b>B. Identify Other Pathways?</b></p>	<p><b>Standard CC.3.5.9-10.A.</b></p>	<p><b>TEXT TYPES AND PURPOSE GRADES 9-10</b></p> <p><b>Standard CC.3.6.9-10.A</b> Write arguments focused on discipline specific content.</p> <p><b>Standard CC.3.6.9-10.B</b> Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p><b>TEXT TYPES AND PURPOSE GRADES 11-12</b></p> <p><b>Standard CC.3.6.11-12.A</b> Write arguments focused on discipline specific content.</p> <p><b>Standard CC.3.6.11-12.B</b> Write informative or explanatory texts, including the narration of technical</p>	<p><b>Standard 2.1.HS.F.2</b> Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p><b>Standard 2.1.HS.F.4</b> Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p><b>Standard 2.1.HS.F.5</b> Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p><b>Standard 2.1.HS.F.6</b> Extend the knowledge of arithmetic operations and apply to complex numbers.</p>



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			<p>processes, etc.</p> <p><b>PRODUCTION &amp; DISTRIBUTION OF WRITING</b> <b>GRADES 9-10</b> <b>Standard CC.3.6.9-10.C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p><b>Standard CC.3.6.9-10 D</b> 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.</p> <p><b>Standard CC.3.6.9-10.E</b> Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p><b>PRODUCTION &amp; DISTRIBUTION OF WRITING</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12 C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p><b>Standard CC.3.6.9-10 D</b> <b>Standard CC.3.6.11-12.D.</b> Develop and strengthen writing as needed by</p>	

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<p><b>500 SITE PREPARATION AND LAYOUT.</b></p>				
<p>501 Determine factors needed to be considered before the start of a building project.</p> <p>502 Demonstrate knowledge of how to acquire a building permit.</p> <p>503 Determine knowledge of PA one call system.</p> <p>504 Describe how to establish elevations and grades from benchmarks using a transit level.</p> <p>505 Demonstrate how to stake out a building foundation using the Pythagorean theory.</p> <p>506 Demonstrate knowledge on how to use batter boards.</p>	<p><b>CLUSTER:</b> <b>Architecture &amp; Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7</p> <p><b>PATHWAYS INCLUDE</b> <b>A. Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9</p>	<p><b>KEY IDEAS/DETAILS GRADES 9-10</b> <b>Standard CC.3.5.9-10.A.</b> Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.9-10B &amp; Standard CC.3.5.9-10.C</b> Determine the central ideas or conclusions of a text; etc...</p> <p><b>Standard CC.3.5.9-10.C</b> Follow precisely a complex multistep procedure, etc...</p> <p><b>KEY IDEAS/DETAILS</b></p>	<p><b>TEXT TYPES AND PURPOSE GRADES 9-10</b> <b>Standard CC.3.6.9-10.A</b> Write arguments focused on discipline specific content.</p> <p><b>Standard CC.3.6.9-10.B</b> Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p><b>TEXT TYPES AND</b></p>	<p><b>Standard 2.1.HS.F.2</b> Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p><b>Standard 2.1.HS.F.4</b> Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p><b>Standard 2.1.HS.F.5</b> Choose a level of accuracy</p>

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		<p>Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 9-10</b> <b>Standard CC.3.5.9-10.G.</b> Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart). <b>Standard CC.3.5.9-10.H.</b> Assess the reasoning in a text to support the author’s claim for solving a technical problem. <b>Standard CC.3.5.9-10.I.</b> Compare and contrast findings presented in a text to those from other sources, etc...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 11-12</b> <b>Standard CC.3.5.11-12.G.</b> Integrate and evaluate multiple sources of information presented in diverse formats... to solve a problem. <b>Standard CC.3.5.11-12.H.</b> Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. <b>Standard CC.3.5.11-12.I.</b> Synthesize information from a range of sources into a coherent understanding.</p> <p><b>RANGE OF READING</b></p>	<p><b>WRITING</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12 C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience. <b>Standard CC.3.6.9-10 D</b> <b>Standard CC.3.6.11-12.D.</b> 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. <b>Standard CC.3.6.11-12.E.</b> Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p><b>RESEARCH</b> <b>GRADES 9-10</b> <b>Standard CC.3.6.9-10.F.</b> Conduct short and more sustained research to answer a question or solve a problem. <b>Standard CC.3.6.9-10.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. <b>Standard CC.3.6.9-10.H.</b></p>	

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Units of Instruction and Task Grid Linked to Pennsylvania Core Standards**

Secondary Competency Task Grid 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 2.1
		<p><b>GRADES 9-10 and 11-12</b>  <b>Standard CC.3.5.9-10.J AND</b>  <b>Standard CC.3.5.11-12.J.</b>                      By the end of grades 9- 10, AND                      11-12, read and comprehend                      technical texts independently and                      proficiently.</p>	<p>Draw evidence from                      informational texts to                      support analysis, reflection,                      and research.  <b>RESEARCH</b>  <b>GRADES 11-12</b>  <b>Standard CC.3.6.11-12.F.</b>                      Conduct short and more                      sustained research to                      answer a question or solve                      a problem.  <b>Standard CC.3.6.11-12.G.</b>                      Gather relevant information                      from multiple authoritative                      print and digital sources,                      following a standard format                      for citation.  <b>Standard CC.3.6.11-12.H.</b>                      Draw evidence from                      informational texts to                      support analysis, reflection,                      and research.  <b>RANGE OF WRITING</b>  <b>GRADES 9-12</b>  <b>Standard CC.3.5.9-10.I</b>  <b>AND Standard CC.3.5.11-</b>  <b>12.I.</b>                      Write routinely over                      extended time frames and                      shorter time frames for a                      range of tasks, purposes                      and audiences...etc.</p>	
<p><b>600 FOOTINGS AND FOUNDATIONS.</b></p>				
<p>601 Demonstrate how to determine footer type.                      602 Demonstrate proper use of leveling instruments.                      603 Demonstrate and establish footer lines and</p>	<p><b>CLUSTER:</b>  <b>Architecture &amp;</b>  <b>Construction Careers</b></p>	<p><b>KEY IDEAS/DETAILS</b>  <b>GRADES 9-10</b>  <b>Standard CC.3.5.9-10.A.</b></p>	<p><b>TEXT TYPES AND</b>  <b>PURPOSE</b>  <b>GRADES 9-10</b></p>	<p><b>Standard 2.1.HS.F.2</b>                      Apply properties of                      rational and irrational</p>

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<p>elevations.</p> <p>604 Demonstrate layout and construct forms.</p> <p>605 Demonstrate layout and construct footers.</p> <p>606 Demonstrate layout foundations.</p> <p>607 Demonstrate layout and construct forms for concrete slabs.</p> <p>608 Demonstrate knowledge of how to properly install reinforcing bars.</p> <p>609 Demonstrate knowledge of how to properly erect vertical and horizontal framework.</p>	<p>(Choose Standards) 1-2-3-4-5-6-7</p> <p><b>PATHWAYS INCLUDE</b></p> <p><b>A. Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9</p> <p><b>B. Identify Other Pathways?</b></p>	<p>Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.9-10B &amp;</b> Determine the central ideas or conclusions of a text; etc...</p> <p><b>Standard CC.3.5.9-10.C</b> Follow precisely a complex multistep procedure, etc...</p> <p><b>KEY IDEAS/DETAILS GRADES 11-12</b></p> <p><b>Standard CC.3.5.11-12A</b> Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.11-12.B.</b> Determine the central ideas or conclusions of a text; etc...</p> <p><b>Standard CC.3.5.11-12.C.</b> Follow precisely a complex multistep procedure, etc...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 9-10</b></p> <p><b>Standard CC.3.5.9-10.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.9-10.E</b> Analyze the structure of the relationships among concepts in a text. etc.</p> <p><b>Standard CC.3.5.9-10.F</b> Analyze the author's purpose in providing an explanation, describing a procedure...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 11-12</b></p>	<p><b>Standard CC.3.6.9-10.A</b> Write arguments focused on discipline specific content.</p> <p><b>Standard CC.3.6.9-10.B</b> Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p><b>TEXT TYPES AND PURPOSE GRADES 11-12</b></p> <p><b>Standard CC.3.6.11-12.A</b> Write arguments focused on discipline specific content.</p> <p><b>Standard CC.3.6.11-12.B</b> Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p><b>PRODUCTION &amp; DISTRIBUTION OF WRITING GRADES 9-10</b></p> <p><b>Standard CC.3.6.9-10.C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p><b>Standard CC.3.6.9-10 D</b> Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most</p>	<p>numbers to solve real world or mathematical problems.</p> <p><b>Standard 2.1.HS.F.4</b> Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p><b>Standard 2.1.HS.F.5</b> Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p><b>Standard 2.1.HS.F.6</b> Extend the knowledge of arithmetic operations and apply to complex numbers.</p> <p><b>Standard 2.3.HS.A.7</b> Apply trigonometric ratios to solve problems involving right triangles.</p> <p><b>Standard 2.2.HS.C.9</b> Prove the Pythagorean identity and use it to calculate trigonometric ratios.</p> <p><b>Standard 2.3.HS.A.3</b> Verify and apply geometric theorems as they relate to geometric figures.</p> <p><b>Standard 2.3.HS.A.13</b> Analyze relationships between two dimensional and three dimensional objects.</p>

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		<p><b>Standard CC.3.5.11-12.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.11-12.E.</b> Analyze the structure of the relationships among concepts in a text.</p> <p><b>Standard CC.3.5.11-12.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 9-10</b></p> <p><b>Standard CC.3.5.9-10.G.</b> Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).</p> <p><b>Standard CC.3.5.9-10.H.</b> Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p><b>Standard CC.3.5.9-10.I.</b> Compare and contrast findings presented in a text to those from other sources, etc...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 11-12</b></p> <p><b>Standard CC.3.5.11-12.G.</b> Integrate and evaluate multiple sources of information presented in diverse formats... to solve a problem.</p> <p><b>Standard CC.3.5.11-12.H.</b></p>	<p>significant for a specific purpose and audience.</p> <p><b>Standard CC.3.6.9-10.E</b> Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p><b>PRODUCTION &amp; DISTRIBUTION OF WRITING</b> <b>GRADES 11-12</b></p> <p><b>Standard CC.3.6.11-12 C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p><b>Standard CC.3.6.9-10 D</b> <b>Standard CC.3.6.11-12.D.</b> 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.</p> <p><b>CC.3.6.11-12.E.</b> Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p><b>RESEARCH</b> <b>GRADES 9-10</b></p> <p><b>Standard CC.3.6.9-10.F.</b> Conduct short and more</p>	



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		<p>Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p><b>Standard CC.3.5.11-12.I.</b> Synthesize information from a range of sources into a coherent understanding.</p> <p><b>RANGE OF READING GRADES 9-10 and 11-12</b> <b>Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J.</b> By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.</p>	<p>sustained research to answer a question or solve a problem.</p> <p><b>Standard CC.3.6.9-10.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p><b>Standard CC.3.6.9-10.H.</b> Draw evidence from informational texts to support analysis, reflection, and research.</p> <p><b>RESEARCH GRADES 11-12</b> <b>Standard CC.3.6.11-12.F.</b> Conduct short and more sustained research to answer a question or solve a problem.</p> <p><b>Standard CC.3.6.11-12.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p><b>Standard CC.3.6.11-12.H.</b> Draw evidence from informational texts to support analysis, reflection, and research.</p> <p><b>RANGE OF WRITING GRADES 9-12</b> <b>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</b></p>	

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			Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.	
<b>700 FRAMING - FLOOR CONSTRUCTION.</b>				
701 Determine methods used to fasten sill plates. 702 Properly install fasteners used in floor framing. 703 Properly measure and install sill plates. 704 Properly measure and install floor joists, including manufactured floor joists. 705 Properly measure and install joists for a cantilever floor. 706 Properly layout and construct cross and solid bridging. 707 Properly layout and install sub-flooring. 708 Properly measure and frame floor openings.	<p><b>CLUSTER:</b> <b>Architecture &amp; Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7</p> <p><b>PATHWAYS INCLUDE</b></p> <p><b>A. Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9</p> <p><b>B. Identify Other Pathways?</b></p>	<p><b>KEY IDEAS/DETAILS GRADES 9-10</b> <b>Standard CC.3.5.9-10.A.</b> Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.9-10B &amp; Standard CC.3.5.9-10.C</b> Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc...</p> <p><b>KEY IDEAS/DETAILS GRADES 11-12</b> <b>Standard CC.3.5.11-12A</b> Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.11-12.B.</b> Determine the central ideas or conclusions of a text; etc...</p> <p><b>Standard CC.3.5.11-12.C.</b> Follow precisely a complex multistep procedure, etc...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 9-10</b> <b>Standard CC.3.5.9-10.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p>	<p><b>TEXT TYPES AND PURPOSE GRADES 9-10</b> <b>Standard CC.3.6.9-10.A</b> Write arguments focused on discipline specific content.</p> <p><b>Standard CC.3.6.9-10.B</b> Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p><b>TEXT TYPES AND PURPOSE GRADES 11-12</b> <b>Standard CC.3.6.11-12.A</b> Write arguments focused on discipline specific content.</p> <p><b>Standard CC.3.6.11-12.B</b> Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p><b>PRODUCTION &amp; DISTRIBUTION OF WRITING GRADES 9-10</b> <b>Standard CC.3.6.9-10.C</b> Produce clear and coherent writing...appropriate to task,</p>	<p><b>Standard 2.1.HS.F.2</b> Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p><b>Standard 2.1.HS.F.4</b> Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p><b>Standard 2.1.HS.F.5</b> Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p><b>Standard 2.1.HS.F.6</b> Extend the knowledge of arithmetic operations and apply to complex numbers.</p> <p><b>Standard 2.3.HS.A.7</b> Apply trigonometric ratios to solve problems involving right triangles.</p> <p><b>Standard 2.2.HS.C.9</b> Prove the Pythagorean identity and use it to calculate trigonometric ratios.</p> <p><b>Standard 2.3.HS.A.3</b></p>

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		<p><b>Standard CC.3.5.9-10.E</b> Analyze the structure of the relationships among concepts in a text. etc.</p> <p><b>Standard CC.3.5.9-10.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 11-12</b></p> <p><b>Standard CC.3.5.11-12.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.11-12.E.</b> Analyze the structure of the relationships among concepts in a text.</p> <p><b>Standard CC.3.5.11-12.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10</b></p> <p><b>Standard CC.3.5.9-10.G.</b> Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).</p> <p><b>Standard CC.3.5.9-10.H.</b> Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p><b>Standard CC.3.5.9-10.I.</b> Compare and contrast findings presented in a text to those from</p>	<p>purpose, and audience.</p> <p><b>Standard CC.3.6.9-10 D</b> 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.</p> <p><b>Standard CC.3.6.9-10.E</b> Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p><b>PRODUCTION &amp; DISTRIBUTION OF WRITING GRADES 11-12</b></p> <p><b>Standard CC.3.6.11-12 C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p><b>Standard CC.3.6.9-10 D</b> <b>Standard CC.3.6.11-12.D.</b> 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.</p> <p><b>Standard CC.3.6.11-12.E.</b> Use technology, including the internet, to produce,</p>	<p>Verify and apply geometric theorems as they relate to geometric figures.</p> <p><b>Standard 2.3.HS.A.13</b> Analyze relationships between two dimensional and three dimensional objects.</p>

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		<p>other sources, etc...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 11-12</b> <b>Standard CC.3.5.11-12.G.</b> Integrate and evaluate multiple sources of information presented in diverse formats... to solve a problem. <b>Standard CC.3.5.11-12.H.</b> Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. <b>Standard CC.3.5.11-12.I.</b> Synthesize information from a range of sources into a coherent understanding.</p> <p><b>RANGE OF READING</b> <b>GRADES 9-10 and 11-12</b> <b>Standard CC.3.5.9-10.J AND</b> <b>Standard CC.3.5.11-12.J.</b> By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.</p>	<p>publish, and update individual or shared writing products.</p> <p><b>RESEARCH</b> <b>GRADES 9-10</b> <b>Standard CC.3.6.9-10.F.</b> Conduct short and more sustained research to answer a question or solve a problem. <b>Standard CC.3.6.9-10.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. <b>Standard CC.3.6.9-10.H.</b> Draw evidence from informational texts to support analysis, reflection, and research.</p> <p><b>RESEARCH</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12.F.</b> Conduct short and more sustained research to answer a question or solve a problem. <b>Standard CC.3.6.11-12.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. <b>Standard CC.3.6.11-12.H.</b> Draw evidence from informational texts to</p>	

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			support analysis, reflection, and research. <b>RANGE OF WRITING GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11- 12.I.</b> Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.	
<b>800 FRAMING - WALL CONSTRUCTION.</b>				
801 Determine fastening methods and properly install fasteners in wall construction. 802 Properly measure, layout and construct a wall. 803 Properly select and install various types of insulation. 804 Properly measure, layout and construct door openings. 805 Properly measure, layout and construct window openings. 806 Properly measure, layout and construct solid headers. 807 Properly measure, layout and install sheathing. 808 Properly plumb, align and brace walls. 809 Demonstrate knowledge of steel framing properly install metal studs.	<b>CLUSTER: Architecture &amp; Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7  <b>PATHWAYS INCLUDE</b> <b>A. Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9  <b>B. Identify Other Pathways?</b>	<b>KEY IDEAS/DETAILS GRADES 9-10</b> <b>Standard CC.3.5.9-10.A.</b> Cite specific textual evidence, etc.... <b>Standard CC.3.5.9-10B &amp; Standard CC.3.5.9-10.C</b> Follow precisely a complex multistep procedure, etc... <b>KEY IDEAS/DETAILS GRADES 11-12</b> <b>Standard CC.3.5.11-12A</b> Cite specific textual evidence, etc.... <b>Standard CC.3.5.11-12.B.</b> Determine the central ideas or conclusions of a text; etc... <b>Standard CC.3.5.11-12.C.</b> Follow precisely a complex	<b>TEXT TYPES AND PURPOSE GRADES 9-10</b> <b>Standard CC.3.6.9-10.A</b> Write arguments focused on discipline specific content. <b>Standard CC.3.6.9-10.B</b> Write informative or explanatory texts, including the narration of technical processes, etc. <b>TEXT TYPES AND PURPOSE GRADES 11-12</b> <b>Standard CC.3.6.11-12.A</b> Write arguments focused on discipline specific content. <b>Standard CC.3.6.11-12.B</b> Write informative or explanatory texts, including	<b>Standard 2.1.HS.F.2</b> Apply properties of rational and irrational numbers to solve real world or mathematical problems. <b>Standard 2.1.HS.F.4</b> Use units as a way to understand problems and to guide the solution of multistep problems. <b>Standard 2.1.HS.F.5</b> Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. <b>Standard 2.1.HS.F.6</b> Extend the knowledge of arithmetic operations and apply to complex numbers. <b>Standard 2.3.HS.A.7</b> Apply trigonometric ratios

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		<p>multistep procedure, etc...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 9-10</b> <b>Standard CC.3.5.9-10.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.9-10.E</b> Analyze the structure of the relationships among concepts in a text. etc.</p> <p><b>Standard CC.3.5.9-10.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 11-12</b> <b>Standard CC.3.5.11-12.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.11-12.E.</b> Analyze the structure of the relationships among concepts in a text.</p> <p><b>Standard CC.3.5.11-12.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 9-10</b> <b>Standard CC.3.5.9-10.G.</b> Translate quantitative or technical information expressed in a text into</p>	<p>the narration of technical processes, etc.</p> <p><b>PRODUCTION &amp; DISTRIBUTION OF WRITING GRADES 9-10</b> <b>Standard CC.3.6.9-10.C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p><b>Standard CC.3.6.9-10 D</b> 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.</p> <p><b>Standard CC.3.6.9-10.E</b> Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p><b>PRODUCTION &amp; DISTRIBUTION OF WRITING GRADES 11-12</b> <b>Standard CC.3.6.11-12 C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p><b>Standard CC.3.6.9-10 D</b> <b>Standard CC.3.6.11-12.D.</b> Develop and strengthen</p>	<p>to solve problems involving right triangles.</p> <p><b>Standard 2.2.HS.C.9</b> Prove the Pythagorean identity and use it to calculate trigonometric ratios.</p> <p><b>Standard 2.3.HS.A.3</b> Verify and apply geometric theorems as they relate to geometric figures.</p> <p><b>Standard 2.3.HS.A.13</b> Analyze relationships between two dimensional and three dimensional objects.</p>

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Secondary Competency Task Grid 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 2.1
		<p>visual form (e.g. a table or chart).  <b>Standard CC.3.5.9-10.H.</b>            Assess the reasoning in a text to support the author’s claim for solving a technical problem.  <b>Standard CC.3.5.9-10.I.</b>            Compare and contrast findings presented in a text to those from other sources, etc...  <b>INTEGRATE KNOWLEDGE/ IDEAS</b>  <b>GRADES 11-12</b>  <b>Standard CC.3.5.11-12.G.</b>            Integrate and evaluate multiple sources of information presented in diverse formats... to solve a problem.  <b>Standard CC.3.5.11-12.H.</b>            Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  <b>Standard CC.3.5.11-12.I.</b>            Synthesize information from a range of sources into a coherent understanding.  <b>RANGE OF READING</b>  <b>GRADES 9-10 and 11-12</b>  <b>Standard CC.3.5.9-10.J AND</b>  <b>Standard CC.3.5.11-12.J.</b>            By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.</p>	<p>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.  <b>Standard CC.3.6.11-12.E.</b>            Use technology, including the internet, to produce, publish, and update individual or shared writing products.  <b>RESEARCH</b>  <b>GRADES 9-10</b>  <b>Standard CC.3.6.9-10.F.</b>            Conduct short and more sustained research to answer a question or solve a problem.  <b>Standard CC.3.6.9-10.G.</b>            Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.  <b>Standard CC.3.6.9-10.H. -</b>            Draw evidence from informational texts to support analysis, reflection, and research.  <b>RESEARCH</b>  <b>GRADES 11-12</b>  <b>Standard CC.3.6.11-12.F.</b>            Conduct short and more sustained research to answer a question or solve</p>	

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			<p>a problem.</p> <p><b>Standard CC.3.6.11-12.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p><b>Standard CC.3.6.11-12.H.</b> Draw evidence from informational texts to support analysis, reflection, and research.</p> <p><b>RANGE OF WRITING GRADES 9-12</b></p> <p><b>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</b> Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
<p><b>900 FRAMING - ROOF CONSTRUCTION.</b></p>				
<p>901 Determine fastening methods used during roof construction.</p> <p>902 Properly install fasteners used in roof construction.</p> <p>903 Properly measure, layout, cut and install a ridge board.</p> <p>904 Properly measure, layout, cut and install hip, jack and truss rafters.</p> <p>905 Properly measure, layout, cut and install roof trusses.</p> <p>906 Properly measure, layout, cut and install brace roof trusses.</p> <p>907 Properly measure, layout, cut and install roof</p>	<p><b>CLUSTER:</b> <b>Architecture &amp; Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7</p> <p><b>PATHWAYS INCLUDE</b> <b>A. Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9</p>	<p><b>KEY IDEAS/DETAILS GRADES 9-10</b> <b>Standard CC.3.5.9-10.A.</b> Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.9-10B &amp; Standard CC.3.5.9-10.C</b> Determine the central ideas or conclusions of a text; etc...</p> <p><b>Standard CC.3.5.9-10.C</b> Follow precisely a complex multistep procedure, etc...</p> <p><b>KEY IDEAS/DETAILS</b></p>	<p><b>TEXT TYPES AND PURPOSE GRADES 9-10</b> <b>Standard CC.3.6.9-10.A</b> Write arguments focused on discipline specific content.</p> <p><b>Standard CC.3.6.9-10.B</b> Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p><b>TEXT TYPES AND</b></p>	<p><b>Standard 2.1.HS.F.2</b> Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p><b>Standard 2.1.HS.F.4</b> Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p><b>Standard 2.1.HS.F.5</b> Choose a level of accuracy</p>



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<p>sheathing.</p> <p>908 Properly measure, layout, cut and install roof openings.</p> <p>909 Demonstrate knowledge of how to frame and install dormers.</p> <p>910 Properly measure, layout, cut and install roofing paper.</p> <p>911 Properly measure, layout, cut and install shingles.</p> <p>912 Properly measure, layout, cut and install capping.</p>	<p><b>B. Identify Other Pathways?</b></p>	<p><b>GRADES 11-12</b> <b>Standard CC.3.5.11-12A</b> Cite specific textual evidence, etc.... <b>Standard CC.3.5.11-12.B.</b> Determine the central ideas or conclusions of a text; etc... <b>Standard CC.3.5.11-12.C.</b> Follow precisely a complex multistep procedure, etc... <b>CRAFT &amp; STRUCTURE</b> <b>GRADES 9-10</b> <b>Standard CC.3.5.9-10.D.</b> Determine the meaning of symbols, key terms, and other domain specific words... <b>Standard CC.3.5.9-10.E</b> Analyze the structure of the relationships among concepts in a text. etc. <b>Standard CC.3.5.9-10.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure... <b>CRAFT &amp; STRUCTURE</b> <b>GRADES 11-12</b> <b>Standard CC.3.5.11-12.D.</b> Determine the meaning of symbols, key terms, and other domain specific words... <b>Standard CC.3.5.11-12.E.</b> Analyze the structure of the relationships among concepts in a text. <b>Standard CC.3.5.11-12.F</b></p>	<p><b>PURPOSE</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12.A</b> Write arguments focused on discipline specific content. <b>Standard CC.3.6.11-12.B</b> Write informative or explanatory texts, including the narration of technical processes, etc. <b>PRODUCTION &amp; DISTRIBUTION OF WRITING</b> <b>GRADES 9-10</b> <b>Standard CC.3.6.9-10.C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience. <b>Standard CC.3.6.9-10 D</b> 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. <b>Standard CC.3.6.9-10.E</b> Use technology, including the internet, to produce, publish, and update individual or shared writing products. <b>PRODUCTION &amp; DISTRIBUTION OF</b></p>	<p>appropriate to limitations on measurement when reporting quantities. <b>Standard 2.1.HS.F.6</b> Extend the knowledge of arithmetic operations and apply to complex numbers. <b>Standard 2.3.HS.A.7</b> Apply trigonometric ratios to solve problems involving right triangles. <b>Standard 2.2.HS.C.9</b> Prove the Pythagorean identity and use it to calculate trigonometric ratios. <b>Standard 2.3.HS.A.3</b> Verify and apply geometric theorems as they relate to geometric figures. <b>Standard 2.3.HS.A.13</b> Analyze relationships between two dimensional and three dimensional objects.</p>

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		<p>Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 9-10</b> <b>Standard CC.3.5.9-10.G.</b> Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart). <b>Standard CC.3.5.9-10.H.</b> Assess the reasoning in a text to support the author’s claim for solving a technical problem. <b>Standard CC.3.5.9-10.I.</b> Compare and contrast findings presented in a text to those from other sources, etc...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 11-12</b> <b>Standard CC.3.5.11-12.G.</b> Integrate and evaluate multiple sources of information presented in diverse formats... to solve a problem. <b>Standard CC.3.5.11-12.H.</b> Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. <b>Standard CC.3.5.11-12.I.</b> Synthesize information from a range of sources into a coherent understanding.</p> <p><b>RANGE OF READING</b></p>	<p><b>WRITING</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12 C</b> Produce clear and coherent writing...appropriate to task, purpose, and audience. <b>Standard CC.3.6.9-10 D</b> <b>Standard CC.3.6.11-12.D.</b> 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. <b>CC.3.6.11-12.E.</b> Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p><b>RESEARCH</b> <b>GRADES 9-10</b> <b>Standard CC.3.6.9-10.F.</b> Conduct short and more sustained research to answer a question or solve a problem. <b>Standard CC.3.6.9-10.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. <b>Standard CC.3.6.9-10.H.</b></p>	

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		<p><b>GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J.</b> By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.</p>	<p>Draw evidence from informational texts to support analysis, reflection, and research. <b>RESEARCH GRADES 11-12</b> <b>Standard CC.3.6.11-12.F.</b> Conduct short and more sustained research to answer a question or solve a problem. <b>Standard CC.3.6.11-12.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. <b>Standard CC.3.6.11-12.H.</b> Draw evidence from informational texts to support analysis, reflection, and research. <b>RANGE OF WRITING GRADES 9-12</b> <b>Standard CC.3.5.9-10.I AND Standard CC.3.5.11- 12.I.</b> Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
<b>1000 EXTERIOR FINISH.</b>				

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<p>1001 Determine fastening methods used during exterior finishing operations.</p> <p>1002 Properly install fasteners used in exterior finishing operations.</p> <p>1003 Properly measure, layout and install house wrap.</p> <p>1004 Properly measure, layout and install exterior doors.</p> <p>1005 Properly measure, layout and install windows.</p> <p>1006 Properly measure, layout and install siding.</p> <p>1007 Properly measure, layout and install soffits and fascias.</p> <p>1008 Properly measure, layout and install gutters and downspouts.</p> <p>1009 Properly measure, layout and install an exterior set of stairs.</p>	<p><b>CLUSTER:</b> <b>Architecture &amp; Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7</p> <p><b>PATHWAYS INCLUDE</b></p> <p><b>A. Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9</p> <p><b>B. Identify Other Pathways?</b></p>	<p><b>KEY IDEAS/DETAILS GRADES 9-10</b></p> <p><b>Standard CC.3.5.9-10.A.</b> Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.9-10B &amp; Standard CC.3.5.9-10.C</b> Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc...</p> <p><b>KEY IDEAS/DETAILS GRADES 11-12</b></p> <p><b>Standard CC.3.5.11-12A</b> Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.11-12.B.</b> Determine the central ideas or conclusions of a text; etc...</p> <p><b>Standard CC.3.5.11-12.C.</b> Follow precisely a complex multistep procedure, etc...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 9-10</b></p> <p><b>Standard CC.3.5.9-10.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.9-10.E</b> Analyze the structure of the relationships among concepts in a text. etc.</p> <p><b>Standard CC.3.5.9-10.F</b> Analyze the author's purpose in</p>		<p><b>Standard 2.1.HS.F.2</b> Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p><b>Standard 2.1.HS.F.4</b> Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p><b>Standard 2.1.HS.F.5</b> Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p><b>Standard 2.1.HS.F.6</b> Extend the knowledge of arithmetic operations and apply to complex numbers.</p>

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		<p>providing an explanation, describing a procedure...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 11-12</b></p> <p><b>Standard CC.3.5.11-12.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.11-12.E.</b> Analyze the structure of the relationships among concepts in a text.</p> <p><b>Standard CC.3.5.11-12.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10</b></p> <p><b>Standard CC.3.5.9-10.G.</b> Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).</p> <p><b>Standard CC.3.5.9-10.H.</b> Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p><b>Standard CC.3.5.9-10.I.</b> Compare and contrast findings presented in a text to those from other sources, etc...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12</b></p> <p><b>Standard CC.3.5.11-12.G.</b></p>		

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		Integrate and evaluate multiple sources of information presented in diverse formats... to solve a problem. <b>Standard CC.3.5.11-12.H.</b> Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. <b>Standard CC.3.5.11-12.I.</b> Synthesize information from a range of sources into a coherent understanding. <b>RANGE OF READING GRADES 9-10 and 11-12</b> <b>Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J.</b> By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.		
<b>1100 INTERIOR FINISH.</b>				
1101 Determine fastening methods used during interior finishing operations. 1102 Properly install fasteners used in interior finishing operations. 1103 Properly measure, layout and install tape and finish drywall. 1104 Properly measure, layout and install suspended and tile ceilings. 1105 Properly measure, layout and install interior doors. 1106 Properly measure, layout and install door, trim, casings and hardware. 1107 Properly measure, layout and install window trim, casings and hardware.	<b>CLUSTER: Architecture &amp; Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7  <b>PATHWAYS INCLUDE</b> <b>A. Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9	<b>KEY IDEAS/DETAILS GRADES 9-10</b> <b>Standard CC.3.5.9-10.A.</b> Cite specific textual evidence, etc.... <b>Standard CC.3.5.9-10B &amp; Standard CC.3.5.9-10.C</b> Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc... <b>KEY IDEAS/DETAILS GRADES 11-12</b>		<b>Standard 2.1.HS.F.2</b> Apply properties of rational and irrational numbers to solve real world or mathematical problems. <b>Standard 2.1.HS.F.4</b> Use units as a way to understand problems and to guide the solution of multistep problems. <b>Standard 2.1.HS.F.5</b> Choose a level of accuracy appropriate to limitations

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<p>1108 Properly measure, layout and install baseboard and molding.</p> <p>1109 Properly measure, layout and install hardwood, tile and block flooring.</p> <p>1110 Properly measure, layout and install an interior set of stairs.</p>	<p><b>B. Identify Other Pathways?</b></p>	<p><b>Standard CC.3.5.11-12A</b> Cite specific textual evidence, etc....</p> <p><b>Standard CC.3.5.11-12.B.</b> Determine the central ideas or conclusions of a text; etc...</p> <p><b>Standard CC.3.5.11-12.C.</b> Follow precisely a complex multistep procedure, etc...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 9-10</b></p> <p><b>Standard CC.3.5.9-10.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.9-10.E</b> Analyze the structure of the relationships among concepts in a text. etc.</p> <p><b>Standard CC.3.5.9-10.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 11-12</b></p> <p><b>Standard CC.3.5.11-12.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.11-12.E.</b> Analyze the structure of the relationships among concepts in a text.</p> <p><b>Standard CC.3.5.11-12.F</b> Analyze the author’s purpose in</p>		<p>on measurement when reporting quantities.</p> <p><b>Standard 2.1.HS.F.6</b> Extend the knowledge of arithmetic operations and apply to complex numbers.</p>

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		<p>providing an explanation, describing a procedure...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 9-10</b> <b>Standard CC.3.5.9-10.G.</b> Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart). <b>Standard CC.3.5.9-10.H.</b> Assess the reasoning in a text to support the author’s claim for solving a technical problem. <b>Standard CC.3.5.9-10.I.</b> Compare and contrast findings presented in a text to those from other sources, etc...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 11-12</b> <b>Standard CC.3.5.11-12.G.</b> Integrate and evaluate multiple sources of information presented in diverse formats... to solve a problem. <b>Standard CC.3.5.11-12.H.</b> Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. <b>Standard CC.3.5.11-12.I.</b> Synthesize information from a range of sources into a coherent understanding.</p> <p><b>RANGE OF READING</b> <b>GRADES 9-10 and 11-12</b></p>		



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		<b>Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J.</b> By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.		
<b>1200 ESTIMATION.</b>				
1201 Demonstrate knowledge of how to estimate bricks and blocks needed to complete a given task. 1202 Correctly estimate the amount of concrete needed to complete a given task. 1203 Correctly estimate the cost and amount of materials to finish an exterior wall. 1204 Correctly estimate the cost and amount of materials to finish an interior wall. 1205 Correctly estimate the cost and amount of materials to construct a floor. 1206 Correctly estimate the cost and amount of materials to construct a roof. 1207 Correctly estimate the cost and amount of materials to install siding for a house.	<b>CLUSTER: Architecture &amp; Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7  <b>PATHWAYS INCLUDE</b> <b>A. Construction Careers</b> (Choose Standards) 1-2-3-4-5-6-7-8-9  <b>B. Identify Other Pathways?</b>	<b>KEY IDEAS/DETAILS GRADES 9-10</b> <b>Standard CC.3.5.9-10.A.</b> Cite specific textual evidence, etc.... <b>Standard CC.3.5.9-10B &amp;</b> Determine the central ideas or conclusions of a text; etc... <b>Standard CC.3.5.9-10.C</b> Follow precisely a complex multistep procedure, etc... <b>KEY IDEAS/DETAILS GRADES 11-12</b> <b>Standard CC.3.5.11-12A</b> Cite specific textual evidence, etc.... <b>Standard CC.3.5.11-12.B.</b> Determine the central ideas or conclusions of a text; etc... <b>Standard CC.3.5.11-12.C.</b> Follow precisely a complex multistep procedure, etc... <b>CRAFT &amp; STRUCTURE GRADES 9-10</b> <b>Standard CC.3.5.9-10.D.</b> Determine the meaning of symbols, key terms, and other		<b>Standard 2.1.HS.F.1</b> Apply and extend the properties of exponents to solve problems with rational exponents. <b>Standard 2.1.HS.F.2</b> Apply properties of rational and irrational numbers to solve real world or mathematical problems. <b>Standard 2.1.HS.F.4</b> Use units as a way to understand problems and to guide the solution of multistep problems. <b>Standard 2.1.HS.F.5</b> Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. <b>Standard 2.1.HS.F.6</b> Extend the knowledge of arithmetic operations and apply to complex numbers.

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		<p>domain specific words...</p> <p><b>Standard CC.3.5.9-10.E</b> Analyze the structure of the relationships among concepts in a text. etc.</p> <p><b>Standard CC.3.5.9-10.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>CRAFT &amp; STRUCTURE GRADES 11-12</b></p> <p><b>Standard CC.3.5.11-12.D.</b> Determine the meaning of symbols, key terms, and other domain specific words...</p> <p><b>Standard CC.3.5.11-12.E.</b> Analyze the structure of the relationships among concepts in a text.</p> <p><b>Standard CC.3.5.11-12.F</b> Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b></p> <p><b>GRADES 9-10</b></p> <p><b>Standard CC.3.5.9-10.G.</b> Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).</p> <p><b>Standard CC.3.5.9-10.H.</b> Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p><b>Standard CC.3.5.9-10.I.</b></p>		

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Units of Instruction and Task Grid Linked to Pennsylvania Core Standards**

Secondary Competency Task Grid 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 2.1
		<p>Compare and contrast findings presented in a text to those from other sources, etc...</p> <p><b>INTEGRATE KNOWLEDGE/ IDEAS</b> <b>GRADES 11-12</b> <b>Standard CC.3.5.11-12.G.</b> Integrate and evaluate multiple sources of information presented in diverse formats... to solve a problem. <b>Standard CC.3.5.11-12.H.</b> Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. <b>Standard CC.3.5.11-12.I.</b> Synthesize information from a range of sources into a coherent understanding.</p> <p><b>RANGE OF READING</b> <b>GRADES 9-10 and 11-12</b> <b>Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J.</b> By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.</p>		