



**Construction Trades, Classification of Instructional Program (CIP) 46.9999
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 DEMONSTRATE SAFETY RULES FOR THE CONSTRUCTION TRADES.				
101 Demonstrate knowledge of OSHA and its mission of safety in the work place. 102 Demonstrate knowledge of hazard communications. 103 Demonstrate knowledge of working safely with hazardous materials. 104 Describe and demonstrate the use of personal protective equipment. 105 Follow rules and regulations for fire protection. 106 Safely handle and store construction materials. 107 Perform safe operations with hand and power tools. 108 Perform safe operations with welding and cutting equipment. 109 Demonstrate knowledge and skill to ensure electrical safety. 110 Demonstrate knowledge of, stuck by, and, caught in between, hazards. 111 Demonstrate and follow procedures that protect workers from falling from elevated structures. 112 Describe and demonstrate safety procedures to follow when working around excavations. 113 Explain safety rules to follow when working around excavations. 114 Describe and follow safety rules for working with concrete and masonry construction. 115 Demonstrate safe use of ladders and scaffolding. 116 Explain and follow safety procedures for working in confined spaces. 117 Explain safety procedures to follow when using explosive or powder actuated tools.	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>KEY IDEAS/DETAILS 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...</p> <p>KEY IDEAS/DETAILS 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...</p> <p>CRAFT & STRUCTURE GRADES 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</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 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.</p>	<p>NUMBERS AND OPERATIONS 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 multistep 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.</p>

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		<p>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...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS 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</p>	<p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D. Develop and strengthen writing as needed. Standard Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p>	

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		<p>other sources, etc...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
200 DEMONSTRATE PROPER USE OF HAND TOOLS.				
<p>201 Identify and follow all basic safety rules for using hand tools.</p> <p>202 Identify and demonstrate the proper use of layout tools.</p> <p>203 Identify and demonstrate the proper use of cutting tools.</p> <p>204 Identify and demonstrate the proper use of shaping tools.</p> <p>205 Identify and demonstrate the proper use of fastening tools.</p> <p>206 Identify and demonstrate the proper use of dismantling tools.</p>	<p>CLUSTER: Architecture and Construction Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: Construction</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc.... Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Standard CC.3.5.9-10.C Follow precisely a complex</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND</p>	<p>NUMBERS AND OPERATIONS 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</p>

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	<p><i>Careers</i> Choose Standards from: 1-2-3-4-5-6-7- 8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS 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...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>CRAFT & STRUCTURE GRADES 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</p>	<p>PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 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. Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D. Develop and strengthen</p>	<p>of multistep 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.</p>

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		<p>text. Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent</p>	<p>writing as needed. Standard Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I.</p>	

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		<p>understanding.</p> <p>RANGE OF READING 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.</p>	<p>Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
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<p>300 OPERATE PORTABLE POWER TOOLS AND EQUIPMENT.</p>				
<p>301 Operate a circular saw safely and accurately. 302 Operate battery and electric drills safely and accurately. 303 Operate belt and hand sanders safely and accurately. 304 Operate reciprocating saws safely and accurately. 305 Operate routers safely and accurately. 306 Operate a pneumatic nailer safely and accurately. 307 Operate a power miter box safely and accurately. 308 Operate a table saw safely and accurately. 309 Operate an electric planer safely and accurately.</p>	<p>CLUSTER: Architecture and Construction Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: Construction Careers Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p>Maintenance Operations Choose standards from 1-2-3-4-5-6</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Standard CC.3.5.11-12.C. Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc...</p> <p>CRAFT & STRUCTURE GRADES 9-10</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writing...appropriate to task,</p>	<p>NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</p> <p>GEOMETRY Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		<p>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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
400 READ PLANS AND BLUEPRINTS.				
<p>401 Demonstrate the ability to reference building codes as needed.</p> <p>402 Demonstrate a need to know zoning regulations.</p> <p>403 Read and interpret plans, sketches and blueprints.</p> <p>404 Recognize and identify basic blueprint terms,</p>	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from:</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or</p>	<p>NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real</p>

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<p>components, abbreviations and symbols. 405 Interpret architectural specifications. 406 Use architect scale. 407 Identify structural components.</p>	<p>1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>Standard CC.3.5.9-10B & Determine the central ideas or conclusions of a text; etc...</p> <p>Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc...</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc...</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E Analyze the structure of the relationships among concepts in a text. etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12 Standard CC.3.5.11-12.D. Determine the meaning of symbols,</p>	<p>explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6.11-12 C Produce clear and coherent</p>	<p>world or mathematical problems. Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</p> <p>ALGEBRA Standard. 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard. 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard. 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard. 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</p> <p>GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their</p>

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		<p>analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	<p>a conic section. Standard CC.2.3.HS.A.11 Apply coordinate geometry to prove simple geometric theorems algebraically. Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems. Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects. Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>
<p>500 PERFORM SITE AND BUILDING LAYOUT.</p> <p>501 Use a builder’s level, transit and/or laser level to determine site and building elevations.</p> <p>502 Square a building using the 3-4-5 rule or by measuring diagonals.</p>	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p>	<p>NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to</p>

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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
	<p>from 1-2-3-4-5-6</p>	<p>conclusions of a text; etc... Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>INTEGRATE KNOWLEDGE/</p>	<p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 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. Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D. Develop and strengthen writing as needed. Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p>	<p>complex numbers.</p> <p>GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane. Standard CC.2.3.HS.A.2 Apply rigid transformations to determine and explain congruence. Standard C.2.3.HS.A.3 Verify and apply geometric theorems as they relate to geometric figures. Standard CC.2.3.HS.A.4 Apply the concept of congruence to create geometric constructions. Standard CC.2.3.HS.A.5 Create justifications based on transformations to establish similarity of plane figures. Standard CC.2.3.HS.A.6 Verify and apply theorems involving similarity as they relate to plane figures. Standard CC.2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right triangles. Standard CC.2.3.HS.A.8 Apply geometric theorems to verify properties of circles. Standard CC.2.3.HS.A.9 Extend the concept of similarity</p>

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		<p>IDEAS 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J.</p>	<p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G.Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	<p>to determine arc lengths and areas of sectors of circles. Standard CC.2.3.HS.A.10 Translate between the geometric description and the equation for a conic section. Standard CC.2.3.HS.A.11 Apply coordinate geometry to prove simple geometric theorems algebraically. Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems. Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects. Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.		
600 DEMONSTRATE SKILL IN PLACING CONCRETE.				
<p>601 Describe modern concrete materials and renewal methods.</p> <p>602 Associate trade terms with the appropriate concrete finishing processes and equipment.</p> <p>603 Estimate the amount of concrete needed for footers and slabs.</p> <p>604 Lay out and build concrete forms.</p> <p>605 Describe the use of equipment and tools for placing concrete.</p> <p>606 Describe the process of depositing, spreading, consolidating, and striking off concrete.</p> <p>607 Describe and demonstrate the basic concrete finishing processes.</p> <p>608 Describe the tools used to edge, groove, and cut concrete.</p>	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc...</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc...</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E Analyze the structure of the relationships among concepts in a</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.9-10.E Use technology, including</p>	<p>NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</p> <p>GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane.</p> <p>Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems.</p> <p>Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three</p>

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		<p>text. etc. Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS 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...</p>	<p>the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D. Develop and strengthen writing as needed. Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12</p>	<p>dimensional objects. Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		<p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	

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700 LAY BLOCK AND BRICK MASONRY UNITS.				
<p>701 Describe the most common types of masonry units. 702 Identify concrete block by size and type. 703 Estimate masonry units needed for block construction. 704 Demonstrate masonry cutting techniques. 705 Lay out and construct a block laying project to specifications. 706 Describe various masonry positions and bonds. 707 Lay block to a line. 708 Describe the function of wall ties. 709 Describe installation of anchor bolts. 710 Mix mortar to proper proportions and consistency. 711 Describe different mortar types and applications. 712 Demonstrate proper brick and block laying techniques. 713 Demonstrate the installation of lintels in block or brick walls.</p>	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc.... Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS 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...</p> <p>CRAFT & STRUCTURE GRADES 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</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 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. Standard CC.3.6.9-10.E Use technology, including</p>	<p>NUMBERS AND OPERATIONS 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 multistep 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.</p> <p>GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane. Standard CC.2.3.HS.A.2 Apply rigid transformations to determine and explain congruence. Standard CC.2.3.HS.A.4 Apply the concept of congruence to create geometric</p>

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		<p>text. etc. Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS 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...</p>	<p>the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D. Develop and strengthen writing as needed. Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12</p>	<p>constructions. Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems. Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects. Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		<p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
<p>800 DEMONSTRATE SKILL IN FRAMING FLOORS.</p>				
<p>801 Identify different types of framing materials and systems. 802 Describe how to install girders and sills. 803 Demonstrate and perform layout of floor joists and openings. 804 Demonstrate how to install various floor joists and band joists. 805 Demonstrate how to install various types of bridging. 806 Demonstrate how to install various types of columns and supports. 807 Demonstrate how to install various types of subfloor</p>	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i></p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc.... Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc...</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND</p>	<p>NUMBERS AND OPERATIONS 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 multistep problems.</p>

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materials.	<p>Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p>Maintenance Operations Choose standards from 1-2-3-4-5-6</p>	<p>KEY IDEAS/DETAILS 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...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>CRAFT & STRUCTURE GRADES 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</p>	<p>PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 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. Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D.</p>	<p>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.</p> <p>GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane. Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems. Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects. Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		<p>text. Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range</p>	<p>Develop and strengthen writing as needed. Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-</p>	

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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
		<p>of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
<p>900 DEMONSTRATE SKILL IN WALL FRAMING.</p>				
<p>901 Describe and demonstrate how to install various components of interior and exterior walls.</p> <p>902 Describe and demonstrate how to install various ceiling joists.</p> <p>903 Describe and demonstrate how to install various steel framing components.</p>	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>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...</p> <p>CRAFT & STRUCTURE GRADES 9-10</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writing...appropriate to task,</p>	<p>NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</p> <p>GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane.</p>

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		<p>Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E Analyze the structure of the relationships among concepts in a text. etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H.</p>	<p>purpose, and audience.</p> <p>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.</p> <p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12</p> <p>Standard CC.3.6.11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D. Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.</p> <p>Standard CC.3.6.11-12.E. Use technology, including</p>	<p>Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems.</p> <p>Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects.</p> <p>Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		<p>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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>the internet, to produce, publish, and update individual or shared writing products.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 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.</p>	
1000 DEMONSTRATE SKILL IN ROOF FRAMING.				
1001 Describe how to identify various roof types. 1002 Describe how to install various roof components for gable roofs.	CLUSTER: <i>Architecture and Construction</i>	KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A.	TEXT TYPES AND PURPOSE GRADES 9-10	NUMBERS AND OPERATIONS Standard 2.1.HS.F.2

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<p>1003 Describe how to install various types of roof trusses. 1004 Describe how to install various types of roof sheathing materials. 1005 Estimate various roof component materials.</p>	<p>Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>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...</p> <p>KEY IDEAS/DETAILS 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...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p>	<p>Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 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. Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING</p>	<p>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 multistep 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.</p> <p>GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane. Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems. Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects. Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		<p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p>	<p>GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D. Develop and strengthen writing as needed. Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from</p>	

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		<p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
1100 INSTALL ROOF COVERINGS.				
<p>1101 Describe how to install various types of asphalt shingles.</p> <p>1102 Describe and demonstrate how to install various types of underlayment materials.</p> <p>1103 Describe how to install various types of flashing.</p> <p>1104 Estimate various roof covering materials.</p>	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS 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</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p>	<p>NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to</p>

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		<p>conclusions of a text; etc... Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>INTEGRATE KNOWLEDGE/</p>	<p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 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. Standard CC.3.6.9-10.E Use technology, including the Internet, to share writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D. Develop and strengthen writing as needed. Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F.</p>	<p>complex numbers.</p> <p>GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane. Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems. Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects. Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		<p>IDEAS 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J.</p>	<p>Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	

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		By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.		
1200 INSTALL INSULATION MATERIALS.				
1201 Describe how to install various types of insulation and ventilation. 1202 Estimate quantities of insulation and ventilation materials.	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>KEY IDEAS/DETAILS 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...</p> <p>KEY IDEAS/DETAILS 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...</p> <p>CRAFT & STRUCTURE GRADES 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</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 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. Standard CC.3.6.9-10.E Use technology, including the Internet, to share</p>	<p>NUMBERS AND OPERATIONS 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 multistep 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.</p>

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		<p>text. etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12 Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS 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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc...</p>	<p>writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D. Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research.</p> <p>Standard CC.3.6.9-10.G. Gather relevant information.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research.</p>	

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		<p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>Standard CC.3.6.11-12.G. Gather relevant information.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
<p>1300 APPLY EXTERIOR FINISHES.</p>				
<p>1301 Describe how to install various types of horizontal sidings. 1302 Describe how to install various types of vertical sidings. 1303 Describe how to install various types of cornices. 1304 Estimate various exterior finish materials. 1305 Identify how to install various types of windows. 1306 Identify how to install various types of exterior doors. 1307 Describe how to install various types of soffit and fascia/windows and doors.</p>	<p>CLUSTER: Architecture and Construction Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: Construction Careers</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc...</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND</p>	<p>NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p>

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	<p>Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>KEY IDEAS/DETAILS 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...</p> <p>CRAFT & STRUCTURE GRADES 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...</p> <p>CRAFT & STRUCTURE GRADES 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</p>	<p>PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 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. Standard CC.3.6.9-10.E Use technology, including the Internet, to share writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D. Develop and strengthen writing as needed.</p>	<p>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.</p>

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		<p>text. Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range</p>	<p>Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and</p>	

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		of sources into a coherent understanding. RANGE OF READING 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.	shorter time frames for a range of tasks, purposes and audiences...etc.	
1400 INSTALL BASIC PLUMBING.				
1401 Describe and demonstrate plumbing hand tools and basic safe use. 1402 Identify and demonstrate plumbing power tools and basic safe use. 1403 Identify various types of pipe 1404 Identify various types of fittings. 1405 Describe how to install various types of valves and devices. 1406 Describe how to install faucets and drain assemblies. 1407 Describe how to install various appliances. 1408 Describe how to interpret blueprints and specifications. 1409 Describe how to install water distribution systems. 1410 Describe how to correctly size drain, waste and vent systems. 1411 Describe how to install fixtures and equipment. 1412 Describe how to troubleshoot and repair various common plumbing problems.	CLUSTER: Architecture and Construction Choose Cluster Standards from: 1-2-3-4-5-6-7 2 PATHWAYS: Construction Careers Choose Standards from: 1-2-3-4-5-6-7-8-9 Maintenance Operations Choose standards from 1-2-3-4-5-6	KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc.... Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc... KEY IDEAS/DETAILS 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 GRADES 9-10	TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc. PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writing...appropriate to task,	NUMBERS AND OPERATIONS 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 multistep 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. GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane.

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		<p>Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E Analyze the structure of the relationships among concepts in a text. etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H.</p>	<p>purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.9-10.E Use technology, including the Internet, to share writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12</p> <p>Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.11-12.D. Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10</p> <p>Standard CC.3.6.9-10.F. Conduct short and more sustained research.</p> <p>Standard CC.3.6.9-10.G. Gather relevant information.</p>	<p>Standard CC.2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right triangles.</p> <p>Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects.</p> <p>Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		<p>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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
1500 INSTALL RESIDENTIAL ELECTRIC CIRCUITS AND COMPONENTS.				
1501 Identify electrical hazards and practice electrical safety.	CLUSTER:	KEY IDEAS/DETAILS	TEXT TYPES AND	NUMBERS AND

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<p>1502 Apply the National Electric Code (NEC) to common residential installations.</p> <p>1503 Read and interpret electrical drawings.</p> <p>1504 Understand and apply electrical theory.</p> <p>1505 Describe basic electrical circuits.</p> <p>1506 Describe and identify various wire types and sizes.</p> <p>1507 Identify and use electrical tools.</p> <p>1508 Identify and install ground fault circuit interrupters.</p> <p>1509 Identify and install arc fault circuit interrupters.</p> <p>1510 Identify and install over current protection devices.</p> <p>1511 Install a junction box.</p> <p>1512 Rough in a ceiling fan box.</p> <p>1513 Install light fixtures.</p> <p>1514 Install various receptacle circuits.</p> <p>1515 Install various switch circuits.</p> <p>1516 Install a 220 volt circuit.</p> <p>1517 Install a recessed light.</p> <p>1518 Trim out and finish electrical circuits.</p> <p>1519 Describe service entrance installation.</p> <p>1520 Describe low voltage electrical circuits.</p> <p>1521 Describe panel installation.</p>	<p><i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc...</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc...</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E Analyze the structure of the relationships among concepts in a text. etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p>	<p>PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.9-10.E Use technology, including the Internet, to share writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING</p>	<p>OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</p> <p>ALGEBRA Standard. 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard. 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard. 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard. 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply</p>

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		<p>CRAFT & STRUCTURE GRADES 11-12 Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS 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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple</p>	<p>GRADES 11-12 Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.11-12.D. Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research.</p> <p>Standard CC.3.6.9-10.G. Gather relevant information.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research.</p> <p>Standard CC.3.6.11-12.G. Gather relevant information.</p>	<p>to complex numbers.</p> <p>Standard CC.2.4.HS.B.5 Make inferences and justify conclusions based on sample surveys, experiments, and observational studies.</p> <p>Standard CC.2.2.HS.D.3 Extend the knowledge of arithmetic operations and apply to polynomials.</p> <p>Standard CC.2.2.HS.D.8 Apply inverse operations to solve equations or formulas for a given variable.</p> <p>Standard CC.2.2.HS.D.9 Use reasoning to solve equations and justify the solution method.</p> <p>Standard CC.2.1.HS.F.3 Apply quantitative reasoning to choose and Interpret units and scales in formulas, graphs and data displays</p> <p>GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane.</p> <p>Standard CC.2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right triangles.</p> <p>Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems.</p> <p>Standard CC.2.3.HS.A.13</p>

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		<p>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 information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	<p>Analyze relationships between two dimensional and three dimensional objects. Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>
<p>1600 DEMONSTRATE KNOWLEDGE AND SKILL IN WALL INTERIOR FINISHES.</p>				
<p>1601 Describe how to install various wall surfaces. 1602 Describe and demonstrate how to install various interior moldings. 1603 Estimate various materials for wall surfaces. 1604 Estimate various types of interior moldings.</p>	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance</i></p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc.... Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including</p>	<p>NUMBERS AND OPERATIONS 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 multistep problems. Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p>

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	<p><i>Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc...</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc...</p> <p>CRAFT & STRUCTURE GRADES 9-10</p> <p>Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E Analyze the structure of the relationships among concepts in a text. etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p>	<p>the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10</p> <p>Standard CC.3.6.9-10.C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.9-10.E Use technology, including the Internet, to share writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12</p> <p>Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.11-12.D. Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.11-12.E. Use technology, including the internet, to... share</p>	<p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</p> <p>GEOMETRY</p> <p>Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane.</p> <p>Standard CC.2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right triangles.</p> <p>Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems.</p> <p>Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects.</p> <p>Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		<p>INTEGRATE KNOWLEDGE/ IDEAS 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12</p>	<p>writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	

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		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.		
1700 DEMONSTRATE KNOWLEDGE OF INTERIOR FINISHES.	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from: 1-2-3-4-5-6-7</p> <p>2 PATHWAYS: <i>Construction Careers</i> Choose Standards from: 1-2-3-4-5-6-7-8-9</p> <p><i>Maintenance Operations</i> Choose standards from 1-2-3-4-5-6</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B & Standard CC.3.5.9-10.C Determine the central ideas or conclusions of a text; etc... Follow precisely a complex multistep procedure, etc...</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>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...</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 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</p>	<p>NUMBERS AND OPERATIONS 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 multistep 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.</p> <p>GEOMETRY Standard CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane. Standard CC.2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right</p>
<p>1701 Describe how to apply different types of paints and their uses.</p> <p>1702 Describe how to apply different paints and stains to different surfaces.</p> <p>1703 Clean painting tools.</p> <p>1705 Describe and apply various types of caulking.</p> <p>1706 Describe and demonstrate how to install ceramic tile.</p>				

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		<p>words...</p> <p>Standard CC.3.5.9-10.E Analyze the structure of the relationships among concepts in a text. etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p>	<p>writing as needed.</p> <p>Standard CC.3.6.9-10.E Use technology, including the Internet, to share writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12</p> <p>Standard CC.3.6...11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.11-12.D. Develop and strengthen writing as needed.</p> <p>Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10</p> <p>Standard CC.3.6.9-10.F. Conduct short and more sustained research.</p> <p>Standard CC.3.6.9-10.G. Gather relevant information.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p>	<p>triangles.</p> <p>Standard CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems.</p> <p>Standard CC.2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects.</p> <p>Standard CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.</p>

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		<p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING 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.</p>	<p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research.</p> <p>Standard CC.3.6.11-12.G. Gather relevant information.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p> <p>RANGE OF WRITING GRADES 9-10-11-12 Standard CC.3.5.9-10.I and Standard CC.3.5.11-12.I. Write over extended and shorter time frames for a range of tasks, purposes and audiences...etc.</p>	
<p>1800 INSTALL STAIRWAYS. 1801 Describe various types of stairways and components. 1802 Calculate, lay out and cut stair stringers.</p>	<p>CLUSTER: <i>Architecture and Construction</i> Choose Cluster Standards from:</p>	<p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc.... Standard CC.3.5.9-10B &</p>	<p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.B Write informative or</p>	<p>NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real</p>

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		<p>key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS 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...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data,</p>	<p>purpose, and audience. Standard CC.3.6.9-10 D Develop and strengthen writing as needed. Standard CC.3.6.11-12.D. Develop and strengthen writing as needed. Standard CC.3.6.11-12.E. Use technology, including the internet, to... share writing products.</p> <p>RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research. Standard CC.3.6.9-10.G. Gather relevant information. Standard CC.3.6.9-10.H. Draw evidence from informational texts.</p> <p>RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research. Standard CC.3.6.11-12.G. Gather relevant information. Standard CC.3.6.11-12.H. Draw evidence from informational texts for research.</p>	

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