

Year 2, MP 1 Goals/Unit Topics = 90 hours	Year 2, MP 1 ELA Standards	Year 2, MP 1 Math Standards
1.400 Blueprint reading A. 401 20 hours B. 402 20 hours 2. 200 Basic Safety A. 204 10 hours 3. 600 Basic electricity A. 610 21 hours B. 611 20 hours C. 612 10 hours	1. CC.3.6. 11-12. A,B,C,D,E,F,G,H, I, .. CC. 3.5, A,B,C,D,E,F, G, H, I.,J A. .CC.3.5.11-12.I. Synthesize information from a range of sources(e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible. B. CC.3.6.11-12.F. Conduct short as well as more sustained research projects to answer a question (including a self generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation. 2. CC.3.6. 11-12. A,B,C,D,E,F,G,H,I. CC.3.5.. 11-12. A,B, C, D, E, F,G,H, I, J. A. CC.3.5.11-12.J. By the end of grade 12, read and comprehend science/technical texts in the grades 11–12 text complexity band independently and proficiently 3.CC.3.6. 11-12. A,B,C,D,E,F,G,H,I. CC.3.5.11-12. A,B,C,D,E,F,G,H,I,J A. CC.3.5.11-12.F. Analyze the author’s purpose in providing an	1. A. B. 2. A. 3. A. B. C.

	explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved. B. CC.3.5.11-12.I. Synthesize information from a range of sources(e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible C. CC.3.5.11-12.J. By the end of grade 12, read and comprehend science/technical texts in the grades 11–12 text complexity band independently and proficiently	
Year 2, MP 2 Goals/Unit Topics 1.700 Introduction to cooling A. 710 10 hours B. 711 5 hours 2.900 Air distribution systems A. 901 15 hours B. 902 15 hours	Year 2, MP 2 ELA Standards 1.CC. 3.6. 11-12. A,B,C,D,E,F,G,H,I. CC. 3.5. 11-12.. A,B,C,D,E,F,G,H,I,J. A. CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information B. CC.3.6.11-12.G. Gather relevant information from multiple authoritative	Year 2, MP 2 Math Standards 1. A. B. C. D. E. 2.

C. 903 10 hours	print and digital sources, using advanced searches effectively; assess	A.
D. 906 15 hours	the strengths and limitations of each source in terms of the specific	B.
E. 907 21 hours	task, purpose, and audience; integrate information into the text	C.
F. 908 10 hours	selectively to maintain the flow of ideas, avoiding plagiarism and	D.
	overreliance on any one source and following a standard format for	E.
	citation.	F.
	2. CC.3.6. 11-12. A,B,C,D,E,F,G,H,I, CC.3.5. A,,B,C,D,E,F,G,H,I,J.	
	A. CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and	
	conclusions in a science or technical text, verifying the data when	
	possible and corroborating or challenging conclusions with other	
	sources of information	
	B. CC.3.5.11-12.I. Synthesize information from a range of sources(e.g.,	
	texts, experiments, simulations) into a coherent understanding of a	
	process, phenomenon, or concept, resolving conflicting information	
	when possible	
	C. CC.3.5.11-12.G. Integrate and evaluate multiple sources of information	
	presented in diverse formats and media(e.g., quantitative data, video,	
	multimedia) in order to address a question or solve a problem.	

	D. CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research. CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research. E. CC.3.5.11-12.J. By the end of grade 12, read and comprehend science/technical texts in the grades 11–12 text complexity band independently and proficiently F. CC.3.6.11-12.I. Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	
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Year 2, MP 3 Goals/Unit Topics	Year 2, MP 3 ELA Standards	Year 2, MP 3 Math Standards
1.1000 Introduction to hydronics A. 1001 10 hours B. 1002 10 hours 2.1101 Leak detection, evacuation, recovery, and charging	1. A. B. 2.	1. Reading a Ruler 2. Reading a Ruler 3. Fractions 4. Fractions

A. 1106 5 hours B. 1107 5 hours C. 1108 10 hours D. 1109 5 hours 3.1200 Troubleshooting heating A. 1201 10 hours B. 1202 10 hours C. 1203 10 hours 4. 1300 Troubleshooting cooling A. 1301 6 hours B. 1302 10 hours C. 1303 10 hours	A. B. C. D. 3. A. B. C. 4. A. B. C.	5. Decimals 6. Decimals 7. Ohms 8. Ohms 9. Ohms
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Year 2, MP 4 Goals/Unit Topics	Year 2, MP 4 ELA Standards	Year 2, MP 4 Math Standards
1.500 Piping practices A. 510 20 hours 2. 600 Basic electricity	1. A. 2. A.	1. Watt/Power A. NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational

A. 613 20 hours B. 614 20 hours 3. NOCTI prep and completing any missed tasks from the program of study.	B. 3. A.	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 2. Prepare for Union Test without Calculators A. 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 3. Prepare for Union test without Calculators
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		A. 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 4. Nocti A. 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
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		and apply to complex numbers 5.Percentages B. 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 6. Discounts C. 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
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		limitations on measurement when reporting quantities. Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers 7. Temperatures D. 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 8. Formulas E. 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
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		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 9. Formulas F. 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
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