



Millington Central Middle High School

ALGEBRA II GUIDE

FIRST QUARTER		
HMH Lesson(s)	Pacing	Topics
	1 week	Policy/Procedures Get to Know You Review <ul style="list-style-type: none">• “Hidden Math”• Exponent Rules• Graph Basics• Etc
1.1 1.2 1.3 1.4	3 weeks	Analyzing Functions <ul style="list-style-type: none">• Domain/Range/End Behavior• Characteristics of Function Graphs• Transformations of Function Graphs• Inverses of Functions A2.F.IF.B.5; A2.A.CED.A.2; A2.F.IF.A.1; A2.F.BF.B.3; A2.F.BF.B.4
2.1 2.2 2.3	2 weeks	Absolute Value <ul style="list-style-type: none">• Graphs• Solving Equations• Solving Inequalities A2.CED.A.1; A2.A.REI.D.6
3.1 3.2 3.3	3 weeks	Quadratic Equations <ul style="list-style-type: none">• Square Root Method• Complex Numbers• Complex Solutions – Quadratic Equation and Completing the Square A2.N.CN.B.3; A2.A.REI.B.3a; A2.N.CN.A.2; A2.N.CN.A.1



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SECOND QUARTER		
HMH Lesson(s)	Pacing	Topics
4.3 4.4	2 weeks	Systems of Equations <ul style="list-style-type: none">• Linear-Quadratic Systems• Linear Systems in 3 Variables A2.A.REI.C.5; A2.A.REI.C.4
5.1 5.2	1 week	Polynomial Functions <ul style="list-style-type: none">• Graphing Cubic Functions• Graphing Polynomial Functions A2.F.BF.B.3; A2.F.BF.B.3b
6.1 6.2 6.4 6.5	3 weeks	Polynomials <ul style="list-style-type: none">• Adding/Subtracting• Multiplying• Factoring• Dividing A2.A.APR.B.3; A2.A.SSE.A.1; A2.A.SSE.A.2; A2.A.SSE.A.1; A2.A.CED.A.1; A2.A.APR.C.4; A2.A.APR.A.1;
7.1 7.2	2 weeks	Polynomial Equations <ul style="list-style-type: none">• Finding Rational Solutions• Finding Complex Solutions A2.N.CN.B.3; A2.A.REI.B.3a; A2.N.CN.A.2; A2.N.CN.A.1



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THIRD QUARTER

HMH Lesson(s)	Pacing	Topics
9.1 9.2 9.3	2 weeks	Rational Expressions and Equations <ul style="list-style-type: none">• Graphing Simple Rational Functions• Graphing More Complicated Rational Functions A2.A.APR.C.4; A2.A.REI.A.2; A2.A.REI.A.1; A2.A.CED.A.1
10.1 10.2 10.3	2 weeks	Radical Functions <ul style="list-style-type: none">• Inverses of Simple Quadratic and Cubic Functions• Graphing Square Root Functions• Graphing Cube Root Functions A2.F.BF.B.4a; A2.F.IF.B.3a
11.1 11.2 11.3	2 weeks	Radical Expressions and Equations <ul style="list-style-type: none">• Radical Expressions and Rational Exponents• Simplifying Radical Expressions• Solving Radical Equations A2.N.RN.A.1; A2.A.REI.A.2; A2.A.REI.A.1
12.1 12.2 12.3	2 weeks	Sequences and Series <ul style="list-style-type: none">• Arithmetic Sequences• Geometric Sequences• Geometric Series A2.F.BF.A.2; A2.A.SSE.B.3
13.1 13.2 13.3 13.4	2 weeks	Exponential Functions <ul style="list-style-type: none">• Exponential Growth/Decay• The Base e• Compound Interest A2.F.BF.B.3; A2.F.LE.A.1; A2.A.CED.A.1



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FOURTH QUARTER		
HMH Lesson(s)	Pacing	Topics
15.1 15.2 16.1 16.2	1.5 weeks	Logarithms
19.1 19.4 20.1 20.2 20.3	1.5 weeks	Probability
	1 week	EOC Review
17.1 17.2 17.3	3 weeks (testing window)	Before Test – EOC Review After Test - Trigonometry
	1 week	Trigonometry Continued
17.1 17.2 17.3	1 week	FINALS WEEK