

| Lesson | Date | Day | Unit | Lesson Objective | Resource Materials - Texts, etc. | Homework and Daily Assignments | Graded Assessments, Applications & Computer Projects | REM |
|--------|---------|-----|-----------------------|--|--|--|--|------------------------------------|
| | 1/7/19 | Mon | | | | None | | PD - Teacher Work Day |
| 1 | 1/8/19 | Tue | Intro | Introduce Students to Course | Teacher Overview + Study Text 7.1 | Read/study Sec 7.1 | Get Notebooks Prepared | Start 3rd Qtr |
| 2 | 1/9/19 | Wed | | Basic Algebra review & Study 7.1 (solving 2 equations graphically) | Complete all 7.1 examples | Section 7.1 odd problems | Practice Boards | |
| 3 | 1/10/19 | Thu | Linear Algebra Basics | Boards 7.1, Study 7.2 (solving 2 equations by substitution) | Complete all 7.2 examples | Section 7.2 odd problems | Practice Boards | |
| 4 | 1/11/19 | Fri | | Boards Section 7.2, Review Greek letters and dimensional analysis | Provide dimensional analysis examples, start dimensional analysis work sheet | Complete Dimensional Analysis Worksheet | Practice Boards | |
| 5 | 1/14/19 | Mon | | Learn Graphing on Excel (1) | Teacher instruction/references on Excel | Computer Lab 1 (Basic Graphing and solving a basic system) | CL1 | |
| 6 | 1/15/19 | Tue | | Review Dimensional Analysis, Review 4 HW problems Study Section 7.2 | Study Text 7.2 (substitution), Complete all example problems | Quiz on Linear Eq (graphing solution), Odds in text section 7.2 | Quiz on solving system of 2 eq and 2 unknowns graphically | |
| 7 | 1/16/19 | Wed | | Review Dimensional Analysis, Boards Section 7.2, Study Section 7.3 (solving 2 equations using linear combinations) | Study Text 7.3 Linear Combos - Elimination), Complete all example problems | Section 7.3 odd problems | Practice Boards / Notebooks Graded | Delayed Start |
| 8 | 1/17/19 | Thu | | Boards text section 7-3, Begin study Matrix Algebra Basics (arrays) | Teacher instruction/references on arrays | Complete Basic Matrix Worksheet | Graded Boards | |
| 9 | 1/18/19 | Fri | | Boards basic matrix operations, begin study of Gaussian Reduction | Teacher instruction/references on arrays | 2 Problems (each problem is a system of 2 equations) to be solved using Gaussian reduction | Graded Boards | |
| | 1/21/19 | Mon | | | | | | No school - Martin Luther King Day |
| 10 | 1/22/19 | Tue | | Boards on Basic Matrix Operations Worksheet, Begin Gaussian Reduction | Teacher instruction/references on Gaussian Reduction or A Inverse Methods | Gaussian Reduction Problems Worksheet | Graded Boards | |
| 11 | 1/23/19 | Wed | | Finish Gaussian Reduction Problems; Start A inverse method | Teacher instructions/references on Gaussian Reduction or A Inverse Methods | Gaussian Reduction Problems Worksheet | | |
| 12 | 1/24/19 | Thu | | GREEK QUIZ; Study the A inverse method | Teacher instructions/references on Gaussian Reduction or A Inverse Methods | Solve Gaussian Reduction Problems Worksheet using A ⁻¹ method | Greek Quiz, and Gaussian Reduction Quiz | |
| 13 | 1/25/19 | Fri | | Boards on Basic Matrix Operations Worksheet, A Inverse Method | Teacher instructions/references on Gaussian Reduction or A Inverse Methods | Complete Gaussian Worksheet but use A Inverse method... learn TI-84 if available | | |
| 14 | 1/28/19 | Mon | | Learn graphing on Excel (2) | Teacher instructions/references on Excel | Complete Computer Lab 1 and send to teacher electronically | Computer Lab 1 | |
| 15 | 1/29/19 | Tue | | Practice A Inverse method... Text Section 7.4/5 (applications and special types of linear systems) | Text Section 7.4 and 7.5 | Odds 7, 9, 11 page 429 | | |
| 16 | 1/30/19 | Wed | | Boards Sec 7.4/7.5. Study 7.6 Linear Inequalities | Text Sec 7.6 | Prob 15-29 (odd), PAGE 436 | Graded Boards | |
| 17 | 1/31/19 | Thu | | Boards text section 7-6; Chapter 7 Review | All Chapter 7 | NONE | Graded Boards | |
| 18 | 2/1/19 | Fri | | Chapter 7 Test (simultaneous linear equations) | Attached Test | Take-Home test (attached) | Chapter 7 Test (Part 1 - in class - show work; Part 2 - take home) | |

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| 19 | 2/4/19 | Mon | | Mars Computer Lab (1) | Teacher resources and Mars Problem Statement | Computer Lab 2 | Take-home Ch 7 test due at the beginning of class | | |
| 20 | 2/5/19 | Tue | Exponents and Exponential Functions | Study Text Section 8.1 (graphing solution areas for multiple inequality equations) | Page 450-452 | Complete odds: 23-61 on page 453 and # 75 on page 454 | | | |
| 21 | 2/6/19 | Wed | | Boards for sec 8.1; Study Section 8.2 (zero and neg exponents) | Pages 456-459 | Prob 14-59 (odds only) pages 459-460 | Graded Boards | | |
| 22 | 2/7/19 | Thu | | Boards Sec 8.2; Study text section 8.3 (Division with exponents) | Pages 463-465 | Prob 19-47 (odds) on page 466 | Graded Boards | | |
| 23 | 2/8/19 | Fri | | Boards Text Section 8.2, Study Text Sec 8.3 Div Prop of Exponents) | Sec 8.3 | Sec 8.3 - Worksheet Practice A (ALL Problems) | Graded Boards | | |
| 24 | 2/11/19 | Mon | | | Mars Computer Lab (2) | Teacher resources and Mars Problem Statement | Computer Lab 2 | | |
| 25 | 2/12/19 | Tue | | Boards Text Section 8.2, Study Text Sec 8.3 Div Prop of Exponents) | Sec 8.3 | Sec 8.3 - Worksheet Practice B (ALL Problems) | Graded Boards | | |
| 26 | 2/13/19 | Wed | | Boards Text Section 8.3, Study Text Sec 8.4 (Scientific Notation) | Sec 8.4 | Sec 8.4 - Worksheet Practice A (ALL Problems) | Graded Boards | Delayed Start | |
| 27 | 2/14/19 | Thu | | Boards Text Section 8.3, Study Text Sec 8.4 (Scientific Notation) | Sec 8.4 | Sec 8.4 - Worksheet Practice B (ALL Problems) | Graded Boards | | |
| 28 | 2/15/19 | Fri | | Boards Text Section 8.4, Study Text Sec 8.5 (Exponential Growth) | Sec 8.5 | Sec 8.5 - Worksheet Practice A (ALL Problems) | Graded Boards | | |
| | 2/18/19 | Mon | | | | | | Winter Break | |
| | 2/19/19 | Tue | | | | | | | |
| 29 | 2/20/19 | Wed | | Boards Text Section 8.5, Study Text Sec 8.6 (Exponential Decay) | Sec 8.6 | Sec 8.6 - Worksheet Practice A (ALL Problems) | Graded Boards | | |
| 30 | 2/21/19 | Thu | | Boards 8.5; Study text section 8.6 | Study 8.6 | Sec 8.6 Practice B (All Problems) | Graded Boards | | |
| 31 | 2/22/19 | Fri | | Review 8.6 HW Problems; Chapter 8-5 and 8-6 Quiz | End of Chapter 8 Review | Chapter 8 Review for Homework (odds) | Sec 8.6 and 8.6 Quiz | | |
| 32 | 2/25/19 | Mon | | | Teacher resources and Mars Problem Statement | Computer Lab 2 | | | |
| 33 | 2/26/19 | Tue | | | Chapter 8 Test A | Study 9.1 | Chapter 8 Test (in class) and Chapter 8 take-home test | | |
| 34 | 2/27/19 | Wed | | Quadratics | Solving quadratics by graphing | 9.1 | All problems Resource Worksheet 9.1 A | | |
| 35 | 2/28/19 | Thu | | | Boards WS 9.1(A); Study simplifying radicals | 9.1 | All problems Resource Worksheet 9.2 A | | |
| 36 | 3/1/19 | Fri | Study Text Sec 9-2 (simplify Radicals) | | 9.2 | Worksheet 9.2 Prac B (all) | Graded Boards | | |
| 37 | 3/4/19 | Mon | | | Teacher resources and Problem Statement | Computer Lab 3 | Mars Computer Lab due | | |
| 38 | 3/5/19 | Tue | Boards WS 9.2 (all); Study 9.3 (graphing Quad Functions) | | 9.3 | Worksheet 9.3 Prac A (all) | Graded Boards | | |
| 39 | 3/6/19 | Wed | Boards WS 9.3 (all); Study 9.4 (Solving quad Eq by graphing) | | 9.4 | Worksheet 9.5 Prac A (all), Use of TI 84 permitted. | Graded Boards | | |
| 40 | 3/7/19 | Thu | Boards WS 9.4 (all); Study 9.5 (use quad formula) | | 9.5 | Worksheet 9.5 Prac A (all), Use of TI 84 permitted. | Graded Boards | | |
| 41 | 3/8/19 | Fri | Boards WS 9.5 (all); Study 9.6 (the discriminant) | | 9.6 | Worksheet 9.5 Prac A (all), Use of TI 84 permitted. | Graded Boards | | |
| 42 | 3/11/19 | Mon | | | Teacher resources and Problem Statement | Computer Lab 3 | | | |
| 43 | 3/12/19 | Tue | Boards WS 9.6 (all); Study 9.7 (quadratic inequalities) | | 9.7 | Worksheet 9.7 Prac A (all) | Graded Boards | | |
| 44 | 3/13/19 | Wed | Practice Quadratics and discriminants | | Sec 9.5/9.6 | Worksheet 9.6 B (ALL) | | Delayed Start | |
| 45 | 3/14/19 | Thu | Boards WS 9.6 (all); Study 9.7 (quadratic inequalities) | | 9.7 | Worksheet 9.7 Prac A (all) | Graded Boards | | |
| | 3/15/19 | Fri | | | | | | End 3rd Qtr - Flex Day | |
| | 3/18/19 | Mon | | | | | | No School - PT release time | |
| | 3/19-22/19 | | | | | | | Spring Break | |

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| 46 | 3/25/19 | Mon | | Patriots Lab (3) | Teacher resources and Problem Statement | Computer Lab 3 | | Start 4th Qtr |
| 47 | 3/26/19 | Tue | | Boards WS 9.7; Study 9.8 (Types of models) | Text Sec 9.8 | Worksheet 9.8 Prac B (ALL) | Graded Boards | |
| 48 | 3/27/19 | Wed | | Chapter 9 Test | All - Chapter 9 | Study Sec 10.1 | In class Test with take home portion | |
| 49 | 3/28/19 | Thu | Polynomials and Factoring | Study 10.1 Add/subtract polynomials | Sec 10.1 | Sec 10.1 Worksheet Prac A (all) | Chapter 9 Take Home Test due at the beginning of class. | |
| 50 | 3/29/19 | Fri | | Boards Sec 10.1; Study Sec 10.2 - Binomial Products | Sec 10.2 | Sec 10.2 Worksheet Prac A (all) | Graded Boards | |
| 51 | 4/1/19 | Mon | | Patriots over Israel (4) | Teacher resources and Problem Statement | Computer Lab 3 | | |
| 52 | 4/2/19 | Tue | | Boards Sec 10.2; Study Sec 10.3 - Binomial Products (more) | Sec 10.3 | Sec 10.3 Worksheet Prac A (all) | Graded Boards | |
| 53 | 4/3/19 | Wed | | Boards Sec 10.3; Study Sec 10.4 - Binomial Products (more) | Sec 10.4 | Sec 10.4 Worksheet Prac B (all) | Graded Boards | |
| 54 | 4/4/19 | Thu | | Study Sec 10.4 - Binomial Products solving factored polynomials | Sec 10.4 | Sec 10.4 Worksheet Prac B (all) | Graded Boards | |
| 55 | 4/5/19 | Fri | | Boards Sec 10.4; Study Sec 10.5 - Factor simple trinomial (a=1) | Sec 10.5 | Sec 10.5 Worksheet Prac A (all) | Graded Boards | |
| 56 | 4/8/19 | Mon | | Computer Lab 4 - Can Optimization Problem (1) | Teacher resources and Problem Statement | Numerical solution to a non-linear problem | | |
| 57 | 4/9/19 | Tue | | Boards 10.5; Study Sec 10.6 - Factor a trinomial (a < 1) | Sec 10.6 | Sec 10.6 Worksheet Prac A (all) | Quiz 10.4 and Graded Boards | |
| 58 | 4/10/19 | Wed | | Boards 10.6; Study Sec 10.7 - Factoring special products (perfect sq and diff of 2 squares) | Sec 10.7 | Sec 10.7 Worksheet Prac a (ALL) | Graded Boards | Delayed Start |
| 59 | 4/11/19 | Thu | | REVIEW and(?) Boards 10.6; Study Sec 10.7 - Factoring special products (perfect sq and diff of 2 squares) | Sec 10.7 | Sec 10.7 Worksheet Prac A (ALL) | Patriots over Israel due | |
| 60 | 4/12/19 | Fri | | Boards Sec 10.7; Study Sec 10.8 - Factoring | Sec 10.8 | Sec 10.8 Worksheet Prac A (ALL) | Graded Boards | |
| 61 | 4/15/19 | Mon | | Computer Lab 4 - Can Optimization Problem (2) | Teacher resources and Problem Statement | Numerical solution to a non-linear problem | | |
| 62 | 4/16/19 | Tue | | Boards Sec 10.8 - Chapter 10 Review | Text Page 634 - 635 | Complete Chapter Review in Text | | |
| 63 | 4/17/19 | Wed | | Answer Chapter 10 Review Questions; Chapter 10 Test | Chapter 10 Test From Resource Book | Study text Sec 11.1 | In Class Tests only. No take home test | |
| 64 | 4/18/19 | Thu | Study Chapter 11.1 - Ratio and proportion | Sec 11.1 | Sec 11.1 Worksheet Prac A (All) | | | |
| 65 | 4/19/19 | Fri | Study Proportions, percents and decimals ; Boards 11.1 Homework | Sec 11.1 - 11.2 | Worksheet 11.2 (Practice A) all problems | Graded Boards | | |
| 66 | 4/22/19 | Mon | Computer Lab 4 - Can Optimization Problem (3) | Teacher resources and Problem Statement | Numerical solution to a non-linear problem | | | |
| 67 | 4/23/19 | Tue | Boards Sec 11.2; Study Direct and inverse variation | Sec 11.3 | Worksheet 11.3 (Practice A) all problems | Graded Boards | | |
| 68 | 4/24/19 | Wed | Boards Sec 11.3; Study rational expressions | Sec 11.4 | Worksheet 11.4 (Prac A) All problems | Graded Boards | | |
| 69 | 4/25/19 | Thu | Boards Section 11-4; Study Simplifying rational expressions | Text Sec 11-5 | Worksheet 11.5 (odds only) | Graded Boards | | |
| 70 | 4/26/19 | Fri | Boards WS 11-5; Study More rational expressions | Text Sec 11-6 | Worksheet 11.6 (odds only) | Graded Boards | | |
| 71 | 4/29/19 | Mon | Computer Lab 4 - Can Optimization Problem (4) | Teacher resources and Problem Statement | Numerical solution to a non-linear problem | | | |

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| 72 | 4/30/19 | Tue | | Boards WS 11-6; Study rational expression division | Text Sec 11-7 | Worksheet 11.7 (odds only) | Graded Boards | | |
| 73 | 5/1/19 | Wed | | Boards WS 11-7; Study rational expression (fractions) simplification | Text Sec 11-8 | Worksheet 11.8 (odds only) | Graded Boards | | |
| 74 | 5/2/19 | Thu | Radicals + Geometry | Sec 12.1 (radicals) | Text Sec 12.1 | Ch 12 Prereq Worksheet and Section 12. 1 Worksheet (all) | Can Optimization Lab 4 Due | | |
| | 5/3/19 | Fri | | Sec 12.2 (more radicals) | Text Sec 12.2 | Section 12. 2 Worksheet (all) | Graded Boards | No School - Blossom | |
| 75 | 5/6/19 | Mon | | Lab 5 - Simulation | | | | | |
| 76 | 5/7/19 | Tue | | Study text Sec 12.3 (solving radical equations) | Text Sec 12.3 | Section 12. 3 Worksheet (all) | Graded Boards | | |
| 77 | 5/8/19 | Wed | | Sec 12.4 - Complete the Square | Text Sec 12.4 | Section 12. 4 Worksheet (all) | | Delayed Start | |
| 78 | 5/9/19 | Thu | | Complete the Square Quiz | Text Sec 12.4 | | Quiz | | |
| 79 | 5/10/19 | Fri | | Sec 12.5 - Pythagorean Theorem | Text Sec 12.5 | Teacher's Worksheets | | | |
| 80 | 5/13/19 | Mon | | Lab 5 - Simulation (2) | | | | | |
| 81 | 5/14/19 | Tue | | Sec 12.6 - Distance Formula | Text Sec 12.6 | Teacher's Worksheets | | | |
| 82 | 5/15/19 | Wed | | Sec 12.6 - MidPoint Formula | Text Sec 12.6 | Teacher's Worksheets | | | |
| 83 | 5/16/19 | Thu | | Sec 12.7 - Trig Functions | Text Sec 12.7 | Teacher's Worksheets | | | |
| 84 | 5/17/19 | Fri | | Sec 12.7 - Trig Functions | Text Sec 12.7 | Teacher's Worksheets | | | |
| 85 | 5/20/19 | Mon | | Final Exams | End of Course Exam | All assigned sections from chapters 11 + 12 | | | |
| 86 | 5/21/19 | Tue | | | Float / Review | | | | |
| 87 | 5/22/19 | Wed | | | | | | | |
| 88 | 5/23/19 | Thu | Check out | | | | | CCHS Graduation | |
| 89 | 5/24/19 | Fri | | | | | Mr Heinen's Last Day of School | | |
| | 5/27/19 | Mon | | | | | MemorialDay | | |
| | 5/28/19 | Tue | | | | | Flex Day | | |