

| Day | Topic Title                              | Lesson(s)   |
|-----|--|---|
| 1   | Topic 1: Linear Functions and Systems    | 1-1 Key Features of Functions                         |
| 2   |  | 1-2 Transformations of Functions                      |
| 3   |  | 1-3 Piecewise-Defined Functions                       |
| 4   |  | 1-4 Arithmetic Sequence and Series                    |
| 5   |  | 1-5 Solving Equations and Inequalities by Graphing    |
| 6   |  | Review  |
| 7   |  | Assess  |
| 8   | Quadratic Functions and Equations        | 2-1 Vertex Form of a Quadratic Function;              |
| 9   |  | 2-2 Standard Form of a Quadratic Function             |
| 10  |  | 2-3 Factored Form of a Quadratic Function             |
| 11  |  | 2-3 Factor- Trinomials                                |
| 12  |  | 2-3 Factor- Grouping; Diff of Squares; Sum/Diff Cubes |
| 13  |  | 2-6 The Quadratic Formula                             |
| 14  |  | Review  |
| 15  |  | Assess  |
| 16  | Polynomial Functions                     | 3-1 Graphing Polynomial Functions                     |
| 17  |  | 3-2 Adding, Subtracting, & Multiplying Polynomials    |
| 18  |  | 3-4 Dividing Polynomials                              |
| 19  |  | 3-5 Zeros of Polynomial Functions                     |
| 20  |  | 3-6 Theorems about Roots of Polynomial Equations      |
| 21  |  | TN1 Understanding Geometric Formulas as functions     |
| 22  |  | Review  |
| 23  |  | Assess  |
| 24  | Rational Exponents and Radical Functions | 5-1 nth roots, radicals, & rational exponents         |
| 25  |  | 5-2 Properties of Exponents and Radicals              |
| 26  |  | 5-3 Graphing Radical Functions                        |
| 27  |  | 5-4 Solving Radical Equations                         |
| 28  |  | 5-5 Function Operations                               |
| 29  |  | 5-6 Inverse Relations and Functions                   |
| 30  |  | Review  |
| 31  |  | Assess  |
| 32  | Probability                              | 12-1 Probability Events                               |
| 33  |  | 12-2 Conditional Property                             |
| 34  |  | 12-3 Permutations and Combinations                    |
| 35  |  | Review  |

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| 36 |                                       | Assess   |
| 37 | Midterm Review                        | Midterm Review                                 |
| 38 |                                       | Midterm Review                                 |
| 39 |                                       | Midterm Review                                 |
| 40 |                                       | Midterm  |
| 41 | Exponential and Logarithmic Functions | 6-1 Key Features of Exponential Functions      |
| 42 |                                       | 6-2 Exponential Models                         |
| 43 |                                       | 6-3 Logarithms                                 |
| 44 |                                       | 6-4 Logarithmic Functions                      |
| 45 |                                       | 6-5 Properties of Logarithms                   |
| 46 |                                       | 6-6 Exponential and Logarithmic Equations      |
| 47 |                                       | 6-7 Geometric Sequence and Series              |
| 48 |                                       | TN2 Comparing Properties of Functions          |
| 49 |                                       | Review   |
| 50 |                                       | Assess   |
| 51 | Matrices                              | 10-1 Operations with Matrices                  |
| 52 |                                       | 10-2 Matrix Multiplication                     |
| 53 |                                       | 1-6 Linear Systems                             |
| 54 |                                       | 1-7 Solving Linear Systems using Matrices      |
| 55 |                                       | 2-7 Linear-Quadratic Systems                   |
| 56 |                                       | 10-5 Inverse Matrices and Systems of Equations |
| 57 |                                       | Review   |
| 58 |                                       | Assess   |
| 59 | Data Analysis and Statistics          | 11-1 Statistical Questions and Variables       |
| 60 |                                       | 11-2 Statistical Studies and Sampling Methods  |
| 61 |                                       | 11-3 Data Distributions                        |
| 62 |                                       | 11-4 Normal Distributions                      |
| 63 |                                       | 11-5 Margin of Error                           |
| 64 |                                       | 11-6 Introduction to Hypothesis Testing        |
| 65 |                                       | Review   |
| 66 |                                       | Assess   |
| 67 | 1 Week of Review?                     |  |
| 68 |                                       |  |
| 69 |                                       |  |
| 70 |                                       |  |
| 71 |                                       |  |

| Notes:                                  | Standard(s):                                     |
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|   | A2.F.IF.A.1; A2.F.IF.B.4; A2.F.BF.B.3            |
| *Use 3-7 for Cubics if needed           | A2.F.BF.B.3                                      |
|   | A2.F.IF.B.4                                      |
|   | A2.F.BF.A.1;A2.F.BF.A.2                          |
|   | A2.CED.A.1                                       |
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| *Advanced: Completing the Sqaure        | A2.F.BF.B.3; A2.A.CED.A.2                        |
|   | A2.F.IF.A.1, A2.S.ID.B.4, A2.A.CED.A.2           |
|   | A2.A.APR.A.2; A2.A.APR.A2*; A2.A.CED.A.2         |
|   | A2.A.APR.A.2; A2.A.APR.A2*; A2.A.CED.A.3         |
| *Use 3-3 for Polynomials                | A2.A.APR.A.2; A2.A.APR.A2*; A2.A.CED.A.4         |
| *Real Solutions Only                    | A2.A.REI.A.1                                     |
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|   | A2F.IF.A.1; A2.CED.A.1; A2.F.IF.B.4; A2.F.IF.A.2 |
|   | A2.A.CED.A.3; A2.F.IF.B.6a; A2.F.BF.A.1          |
| *Synthetic only; Advanced: Long Divison | A2.A.APR.A.1                                     |
|   | A2.A.APR.A.2; A2.F.IF.B.4                        |
|   | A2.APR.A.1                                       |
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| *Can combine several topics if needed   | A2.N.RN.A.1a-b                                   |
|   | A2.N.RN.A.1.c                                    |
|   | A2.F.IF.A.1; A2.F.IF.B.4; A2.F.BF.B.3            |
|   | A2.A.REI.A.1; A2.A.REI.A.2; A2.A.CED.A.3         |
|   | A2.F.BF.A.1.a-b                                  |
|   | A2.F.BF.B.4.a-c                                  |
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| Touch on TN-3 The Law of Large Numbers  | A2.S.CP.A.1; A2.S.CP.B.3                         |
|   | A2.S.CP.A.1; A2.S.CP.C.4                         |
|   | A2.S.CP.B.2.a-b                                  |
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