

| Lesson | Topics / Standard | Objectives: Students will be able to | Instructional Activities (modifications / differentiation/ alternative) | Assessment |
|--------|--|--|---|------------------------|
| 1 | Exponential Functions/ F-LE.1c | ·determine exponential growth/decay, compound interest and annuity. | ·discuss homework questions. ·Powerpoint lesson on formulas with examples. | Page 709 (24 - 29 all) |
| 2 | The Number e / F-LE.1c | ·understand how to use e and when the natural number is appropriate. | ·address homework questions. ·Smart board presentation on e with student practice. | Page 714 (6 - 12 all) |
| 3 | The Number e / F-LE.1c | ·understand how to use e and when the natural number is appropriate. | ·homework review. ·continue to practice with the number e . | Practice 11-3 |
| 4 | Exponential Functions/ F-LE.1c, N-RN.1, N-RN.2, F-IF.7e, F-IF.8b | ·review and catch-up on mid-chapter topics. | ·discuss homework questions. ·pair practice and review - page 717 (1 - 10 all) | Study |
| 5 | Exponential Functions/ F-LE.1c, N-RN.1, N-RN.2, F-IF.7e, F-IF.8b | ·assess students on mid-chapter topics. | Quiz 11-1 to 11-3 | Quiz |
| 6 | Logarithmic Functions/F-IF.7e, F-LE.4 | ·graph and solve logarithmic functions. | ·Smart board presentation on log functions. ·students predict graphs. ·pair practice - page 724 (53 - 57) | Page 723 (20 - 40 all) |

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| 7 | Logarithmic Functions/F-IF.7e, F-LE.4 | ·use the properties of logarithms to solve equations. | ·check homework and address questions. ·introduce properties of logs with examples. | Page 723 (41 - 52 all) |
| 8 | Logarithmic Functions/F-IF.7e, F-LE.4 | ·use the properties of logarithms to solve equations. | ·check homework and address questions. ·continue to practice solving log equations using the properties. | Practice 11-4 |
| 9 | Common Logarithms/ F-IF.7e, F-LE.4 | ·find common logarithms and antilogarithms of numbers and solve equations and inequalities involving logarithms. | ·homework questions and answers. ·define common log, find it on the calculator and how to find the antilog. | Pages 730 - 731 (19 - 45 odd) |
| 10 | Natural Logarithms/ F-IF.7e, F-LE.4 | ·solve equations and inequalities involving natural logarithms. | ·discuss homework questions. ·introduce natural logs and antiln, show examples of solving equations and inequalities. | Page 736 (30 - 43 all) |
| 11 | Natural Logarithms/ F-IF.7e, F-LE.4 | ·solve equations and inequalities involving natural logarithms. | ·homework review. ·continue to practice with natural logs. ·pair practice - page 735 (5 - 17 all) | Pages 736 - 737 (48 - 60 all) |
| 12 | Exponential and Logarithmic Functions/ F-LE.1c, N-RN.1, N-RN.2, F-IF.7e, F-IF.8b | ·solve equations and inequalities involving common and natural logs. | ·homework review. ·review of properties of logarithms, solving equations and inequalities using the common and natural logs. | Pages 750 - 751 (12 - 75 mult. of 3) |

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| 13 | Exponential and Logarithmic Functions/ F-LE.1c, N-RN.1, N-RN.2, F-IF.7e, F-IF.8b | ·solve equations and inequalities involving common and natural logs. | ·homework review. ·pair practice - review for test pages 752 - 753 (60 - 77 all) | Study |
| 14 | Exponential and Logarithmic Functions/ F-LE.1c, N-RN.1, N-RN.2, F-IF.7e, F-IF.8b | ·assess students on Chapter 11 topics. | Chapter 11 Test | Test |