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<u>Unit 4 - Exponential Relations Unit</u>			
<p>(A) Simplifying Exponential Expressions - The Algebra of Exponential Relations</p> <ul style="list-style-type: none"> • Apply laws of exponents (product rule, quotient rule, power of a power, power of a product, power of a quotient) • Evaluate expressions with integral exponents, including zero and negative exponents <p>(B) Solving Exponential Equations - The Algebra of Exponential Relations</p> <ul style="list-style-type: none"> • Solve systems involving exponential functions graphically and numerically • Solve exponential equations algebraically using involving common bases (or having to convert to common bases) <p>(C) Compare and contrast growth and decay models:</p> <ul style="list-style-type: none"> • How are the patterns in exponential data & linear data different? • How do linear and exponential relations differ and how are they similar? <p>(D) The Graphing & Evaluation of Exponential Relations</p> <ul style="list-style-type: none"> • Graph the parent graph of $y = 2^x$ and $y = 0.5^x$ (or $y = 2^{-x}$) with and without technology • Apply simple transformations of exponential relations - initially use only vertical and horizontal translations <p>(E) The Applications of Exponential Relations</p> <ul style="list-style-type: none"> • Write equations for exponential growth & decay functions in a variety of contexts. • Apply equations for exponential functions to solve a variety of contextual problems. • Explain and discuss the meaning of exponential functions in various contexts. <p>(F) Consolidate and expand your understanding of domain and range in the context of exponential functions.</p>			

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<p><u>Unit 5 - Quadratic Relations</u></p> <p>(A) Quadratic Relations - Graphic Perspective</p> <ul style="list-style-type: none"> • Identify whether or not a relation is quadratic. • Use a quadratic relation to find unknown values, especially in application problems. • Graph quadratic relations (parabolas) and be able to find and identify key features of the graph, including <ul style="list-style-type: none"> ○ x-intercepts/zeros/solutions/root ○ the y-intercept ○ the vertex (maximum/minimum point) ○ the axis of symmetry • Understand that the equations of quadratic relations can be written in multiple forms (standard form, factored form, vertex form) • Given a quadratic relation in ANY form, identify the vertex and graph the parabola. <p>(B) Quadratic Relations - Algebraic Perspective</p> <ul style="list-style-type: none"> • Understand the connection between the algebra of quadratic relations and the graphs of quadratic relations • Understand the connection between roots and factors and intercepts • Understand how factoring and solving are two different concepts, but that solving MAY involve the factoring process • Solve quadratic equations by factoring. • Use quadratic equation solving techniques in application problems. • Understand that the equations of quadratic relations can be written in multiple forms (standard form, factored form, vertex form) and that algebraic operations allow us to convert between forms • Solve systems of equations involving both linear and quadratic functions. 			

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<p><u>Unit 6 - Descriptive Statistics</u></p> <p>(A) Represent and Interpret Data:</p> <ul style="list-style-type: none"> • Represent and interpret data using bar graphs. • Represent and interpret data using stem-and-leaf plots and frequency distribution tables for both discrete and continuous data • Represent and interpret data using frequency histograms and frequency polygons. • Represent and interpret data using cumulative frequency graphs. • Represent and interpret data using box-and-whisker plots. • Use visual representations of data to make observations, make conclusions and ask questions about the data and its representation. • Make conclusions & observations about data or about the context of the data when presented with a variety of data representations • Be aware that data representations could be presented in such a manner as to inform, but also to misinform!! <p>(B) Calculate Statistical Measures:</p> <ul style="list-style-type: none"> • Calculate measures of central tendency (mean, median, mode) for discrete data, by hand or by using the calculator. • Estimate measures of central tendency (mean, median, mode) for discrete data, when presented frequency histograms, frequency tables or cumulative frequency distributions. • Calculate measures of central tendency (mean, median, mode) for continuous data, by hand or by using the calculator. • Estimate measures of central tendency (mean, median, mode) for discrete data, when presented frequency histograms, frequency tables or cumulative frequency distributions. • Calculate as well as estimating measures of spread, including the range and interquartile range, given that the data could be represented in a variety of ways (list of data, frequency tables, grouped data, cumulative frequency graph) • Identify the lower and upper quartiles of a set of data, by hand or by using the calculator, given that the data could be represented in a variety of ways (list of data, frequency tables, grouped data, cumulative frequency graph) 			

Unit Objectives to Study | JUNE EXAM PREP

Links to Study Resources:

Unit 4 - Exponential Relations	Unit 5 - Quadratic Relations	Unit 6 - Statistics
<p>Exponential Relations Mid-Unit QUIZ from 2014</p> <p>Exponential Relations Unit TEST from 2014</p> <p>Exponential Relations Unit Review Questions from Nelson 11 Textbook</p> <p>Here is a link to the Exponential Relations UNIT TEST PREP, as given to you earlier this semester</p>	<p>Quadratic Relations Mid-Unit QUIZ from 2014</p> <p>Quadratic Relations TEST from 2014</p> <p>Quadratic Relations Mid-Unit REVIEW questions from Nelson 10 Textbook</p> <p>Quadratic Relations UNIT TEST Review questions from Nelson 10 Textbook</p>	<p>Statistic Chapter 5 REVIEW exercises from the Haese & Harris book</p> <p>Statistics Review Assignment.</p>