



Course-at-a-Glance --- Mathematics --- Telescoped Algebra 8/Intermediate Algebra

First Semester	Second Semester
<p>Unit 1: Applied Linear Functions (4 weeks) Approximate dates: August 29 – September 26, 2016</p> <p>1.1 I can obtain information, draw conclusions, and make predictions from linear relationships using a table, sequences, situation, or graph. (9.2.1.4, 9.2.2.1)</p> <p>1.2 I can write an equation of a line and convert between slope-intercept, point-slope, and standard forms. (8.2.4.3, 9.2.3.7)</p> <p>1.3 I can collect, display, and interpret data using scatterplots and justify an appropriate line of best fit. (8.4.1.1, 8.4.1.2, 8.4.1.3)</p> <p>1.4 I can write an equation for a line of best fit and analyze its reasonableness using a graph and the correlation coefficient, and make predictions. (8.4.1.2, 8.4.1.3, 9.4.1.3, 9.4.2.3)</p> <p>Unit 2: Systems of Equations and Inequalities (5 weeks) Approximate dates: September 27 – November 2, 2016</p> <p>2.1 I can write an equation of a line that is parallel or perpendicular to any given line. (8.3.2.1, 8.3.2.3, 8.3.2.2)</p> <p>2.2 I can solve systems of equations using a table or a graph, and determine if a system has 0, 1, or infinitely many solutions. (8.2.4.7, 8.2.4.8)</p> <p>2.3 I can model a context using a system of linear equations. (8.2.4.7)</p> <p>2.4 I can solve a system of equations using substitution or elimination, and determine if a system has 0, 1, or infinite solutions. (8.2.4.7, 8.2.4.8, 9.2.3.7)</p> <p>2.5 I can create a graph of an inequality in one or two variables, and analyze its meaning in context. (8.2.4.5, 9.2.4.4, 9.2.4.5)</p> <p>2.6 I can obtain information and solve problems involving linear inequalities using graphical methods. (9.2.4.1, 9.2.4.4, 9.2.4.5)</p> <p>Unit 3: Functions (4 weeks) Approximate dates: November 7 – December 7, 2016</p> <p>3.1 I can identify functions in their multiple representations. (9.2.1.1, 9.2.1.2)</p> <p>3.2 I can use function notation to evaluate and solve graphically and algebraically. (9.2.1.1)</p> <p>3.3 I can obtain information and describe a graph using the vocabulary of functions. (9.2.1.3, 9.2.1.4, 9.2.1.8)</p> <p>Unit 4: Exponential Models (5 weeks) Approximate dates: December 8, 2016 – January 26, 2017</p> <p>4.1 I can obtain information, draw conclusions, and make predictions from exponential relations using a table, sequence, situation, or graph. (8.2.1.5, 8.2.2.5, 9.2.4.2)</p> <p>4.2 I can simplify expressions involving exponents. (8.1.1.4, 9.2.4.2)</p> <p>4.3 I can use exponential models to solve real-world problems involving growth and decay. (8.1.1.4, 8.1.1.5, 9.2.2.2)</p> <p>4.4 I can express and interpret numbers using scientific notation, including those on calculator displays. (8.1.1.5)</p>	<p>Unit 5: Transformations (3 weeks) Approximate dates: January 31 – November 22, 2017</p> <p>5.1 I can identify parent functions including linear, absolute value, quadratic, square roots, and exponential functions. (9.2.2.3)</p> <p>5.2 I can identify, describe and apply a variety of transformations to functions. (9.2.1.9)</p> <p>5.3 I can identify and describe how transformations affect the multiple representations of a parent functions. (9.2.2.3, 9.3.4.6)</p> <p>Unit 6: Quadratics (6 weeks) Approximate dates: February 23 – April 14, 2017</p> <p>6.1 I can identify the critical points of a quadratic function and use them to obtain information, make predictions, and justify conclusions. (9.2.1.5, 9.2.1.6)</p> <p>6.2 I can translate among multiple representations and forms of quadratic equations. (9.2.1.5, 9.2.1.6, 9.2.2.1, 9.2.2.3, 9.2.3.3, 9.2.4.1)</p> <p>6.3 I can solve quadratic equations and make connections to a context. (9.2.1.6, 9.2.2.2,)</p> <p>MCA Testing (1 week) Units 1 – 6 must be taught prior to MCA testing. Approximate dates: April 17-21, 2017</p> <p>Unit 7: Statistics (4.5 weeks) Approximate dates: April 24 – May 16, 2017</p> <p>7.1 I can describe and compare data sets using summary statistics. (9.4.1.1, 9.4.1.2, 9.4.1.4)</p> <p>7.2 I can create and analyze graphical displays of data sets. (9.4.1.1, 9.4.1.2, 9.4.1.4)</p> <p>7.3 I can obtain information, make predictions, and justify conclusions using statistical thinking. (9.4.2.1, 9.4.2.2, 9.4.2.3)</p> <p>Unit 8: Probability (4.5 weeks) Approximate dates: May 17 – June 14, 2017</p> <p>8.1 I can use experimental probabilities to make predictions and justify conclusions. (9.4.3.1, 9.4.3.2, 9.4.3.3, 9.4.3.4)</p> <p>8.2 I can create theoretical models to obtain information and solve problems. (9.4.3.1, 9.4.3.5, 9.4.3.7, 9.4.3.8)</p> <p>8.3 I can use a Venn diagrams to obtain information and solve problems. (9.4.3.6, 9.4.3.7)</p>