

LEARNING PLAN

<p>Exploratory Activities Guess-My-Rule (student-invented rules)</p>	<p>Concept Linear Functions</p>
<p>Concept Development Activities</p> <ul style="list-style-type: none"> • Geoboard line segments – equations from graphs • Linear Function Race • “On the Road Again” TEXTEAMS 2-171 • “The Birthday Gift” TEXTEAMS 2-168, 2-169, 2-170 • “Graphing Linear Functions” TEXTEAMS 2-173 • “Identifying Linear Functions” TEXTEAMS 2-174 • “Cricket Chirps” <i>Study Guide-Algebra I Explorations and Applications</i> p. 73: #3 • Parallel Lines: <i>Algebra: Themes, Tools, and Concepts</i> p. 298 : #30 • Time, Distance and Speed: <i>Algebra : Themes, Tools and Concepts</i> pp. 64-65 • Submarine Situations: <i>Concepts in Algebra: A Technological Approach</i> Situations 4.8-4.11, pp. 154-157 	<p>Materials and Resources</p> <p>graphing calculator recording paper Cartesian Plane graph paper TEXTEAMS Algebra I Institute Creative Publications <i>Algebra: Themes, Tools, and Concepts</i> McDougal-Littell <i>Study Guide-Algebra I Explorations and Applications</i> <i>Concepts in Algebra: A Technological Approach</i> Linear Function Race materials</p>
<p>Basic Skills and Standard Algorithms Formalized Equations of lines from finite differences (worksheet) Parameter change for $y = mx$ and $y = mx + b$ Write the equation of a line given its slope and a point on the line; given two points on the line; given its x- and y-intercepts (<i>intercept form of a line $x/A + y/B = 1$</i>) Given the equation of a line, find m and (0,b) <i>Study Guide-Algebra I Explorations and Applications</i>, pp. 67-72</p>	<p>Originality and Creativity <i>Student Products</i></p> <p>Written Write a letter to an adult describing what you know about linear functions.</p> <p>Verbal Prepare a persuasive speech on the importance of linear functions.</p> <p>Kinesthetic Create and demonstrate a board game involving linear functions.</p>
<p>Assessment: Written Report: <i>Algebra: Themes, Tools, and Concepts</i> p. 300: #10</p>	<p>Visual Illustrate an example of a “real-world” linear function.</p>
<p>TEKS b.2.A., c.2.C.,c.2.D., c.2.F., c.2.G., c.3.A., c.3.B., c.3.C. Test Items form Algebra I EOC Spring 2000: 6,11,15,17,18,19,20,23,28,29,31,38,40 Spring 2001: 2,5,8,15,18,27,28,31,37 Spring 2002: 1,4,9,12,18,24,27,28,34,38,40</p>	