## Subject/Course: Title: Unit 4 SC Math Length: 2 weeks Topic: Non-Linear Functions Designer: D. Rye Grade: 9-12 UNIT GOALS AND EXPECTATIONS IMPORTANT CONCEPTS/UNDERSTANDINGS **ESSENTIAL QUESTIONS:** Solve equations and apply them to answer What is a function? • real-life questions. Define a Function. What models can be used to solve • real-life problems? Apply model to help solve non-linear • equations. What properties are used to solve • non-linear functions? Solve equations and graph the answers. STUDENT LEARNING EXPECTATIONS: NLF.4.AI.2 Determine minimum, maximum, vertex, and zeros, given the graph. SPECIFIC DECLARATIVE KNOWLEDGE – What I SPECIFIC PROCEDURAL KNOWLEDGE – What I need to do know Vocabulary words: absolute value, algebraic ٠ Apply non-linear factions to real- world model, graph of a linear inequality. • problems Identify operation symbols ٠ Use a calculator to evaluate expressions Identify the algebraic model used to solve a • • problem. UNIT ASSESSMENTS (Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy)

## UNIT OF STUDY

Unit 4 Open Response (application)		
Traditional Assessments:	Other Evidence of Learning:	
Unit 4 Test	Classroom	
Unit 4 Quiz	Teacher Observation	

ACTIVITIES AND LEARNING EXPERIENCES	Resources		
<ul> <li>4 Step Vocabulary</li> <li>Model non-linear functions on board.</li> <li>Games <u>www.mathplaygroud.com</u>.</li> <li>Guided practice.</li> <li>Student lead board work.</li> </ul>	<ul> <li>Calculator</li> <li>Activity worksheets</li> <li>Portfolio workbook</li> </ul>		
Career Connections			
Business Owner, Data Collector, Statistician			