

Name(s): Sandra Baird & Stacey Cullen

Course: AP Calculus AB/BC

Unit: 2 Day Curricular Project

Period/Time: Period 6-7

Unit Topic: Immigration

What is the relationship between the naturally exponential population growth of the

Essential Question: United States citizens and our country's population as influenced by immigration?

Dates: April 6 & 7, 2009

Department: Mathematics

Grade Level: 11th & 12th

	4/6/09	4/7/09
Objectives	To investigate the use of graphing calculators in finding mathematical models to represent a given set of statistical data.	To present the results of the investigation and generated mathematical models. Discuss any conclusions that can be drawn and answer the essential question.
Activities/ Procedures	Students will choose a country of birth of the Foreign-Born Population, 1850 - 2000. Using a graphing calculator, the students will find a regression equation and statistical data plot to represent the given data.	The groups will present their models to the class. Upon completion, the class will discuss the results and draw conclusions.
Instructional Strategy	Student will be given examples of statistical data and models generated with the graphing calculator. In groups of 3, the students will then investigate the foreign born population and generate models.	Students may use any visual means to present their findings.
Technology	Graphing calculators.	Graphing calculators, the elmo, computer, etc.
Materials	Worksheets, statistical data,	Student generated.
Homework	Use the model generated to estimate the population in future years.	
Assessment	Students will save their models and present the results.	Grades will be given according to a rubric.
NJCCS or Curriculum	4.4, 4.5	4.4, 4.5