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Course: Honors Precal

Unit: Immigration

Period/Time: 2 periods

Unit Topic: Immigration

Dates: April 6 & 7, 2009

Department: Mathematics

Grade Level: 11th & 12th

Essential Question: What is the relationship between the naturally exponential population growth of United States citizens and our country's population as influenced by immigration?

	4/6/09	4/7/09
Objectives	To determine the percent change in the Native and Immigrant Populations using Census Data. To create a scale and graph the US population and the immigrant population.	To calculate an equation for the exponential graph. To use this function to predict population for a particular year.
Activities/ Procedures	Given Data from the US Census from 1900 - 2005, determine the immigrant population. Once completed, make a line graph that compares Native and Immigrant populations	Transform the exponential curve to a linear model in order to calculate a least squares regression line for the log of the data. To then transform the equation back to a curved function in order to predict the population for future dates.
Instructional Strategy	Indirect and Group	Indirect and Individual
Technology	Calculators or Graphing Calculators	Calculators or Graphing Calculators
Materials	Graph Paper, Rulers	Graph Paper, Rulers
Homework	Complete Graphs and Data Calculations	Complete Graphs and Data Calculations
Assessment	Completed Graphs and Data Calculations	Completed Graphs and Data Calculations
NJCCS or Curriculum Standards	4.1.c Estimation, 4.3.c Modeling, 4.4a Data Analysis, 4.4.A.2 Real World Data, 4.4.A.5 Data using Technology, 4.5.B.1 Communicate Results, 4.5.E Representations, 4.5.F.4 Calculator as a Tool	4.1.c Estimation, 4.3.c Modeling, 4.4a Data Analysis, 4.4.A.2 Real World Data, 4.4.A.5 Data using Technology, 4.5.B.1 Communicate Results, 4.5.E Representations, 4.5.F.4 Calculator as a Tool