

Curriculum Map
Statistics and Discrete Math CP2 (366)
Saugus High School
Saugus Public Schools
2009-2010

Week 1		Week 2	
Performance Standards		Performance Standards	
<p>The students will: 14.0 Students organize and describe distributions of data by using a number of different methods, including frequency tables, histograms, standard line graphs and bar graphs, stem-and-leaf displays, scatterplots, and box-and-whisker plots.</p>		<p>The students will: 14.0 Students organize and describe distributions of data by using a number of different methods, including frequency tables, histograms, standard line graphs and bar graphs, stem-and-leaf displays, scatterplots, and box-and-whisker plots.</p>	
Unit/Topic/Lesson UNIT ONE Introduction to Statistics		Unit/Topic/Lesson UNIT TWO Working with Data	
<ol style="list-style-type: none"> 1. Overview of Statistical Concepts 2. The Nature of Data 3. Statistics (Uses and Abuses) 4. Design of Experiments 		<ol style="list-style-type: none"> 1. Overview of Data Concepts 2. Summarizing Data with Frequency Tables 3. Pictures of Data 4. Measures of Center 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i> 		<ol style="list-style-type: none"> 1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i> 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To understand what is statistics studies. 2. To understand how to design an experiment. 	<p>What is important in designing an experiment?</p>	<ol style="list-style-type: none"> 1. To be able to display data in a variety of graphs and pictures. 2. To work with data using frequency tables. 	<p>What are some of the most useful graph of data display?</p>
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Essentials of Statistics ©2002</i> <ol style="list-style-type: none"> 1. Chapter One lessons 2. Chapter One exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics ©2002</i> <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources 	<i>Essentials of Statistics ©2002</i> <ol style="list-style-type: none"> 1. Chapter Two lessons 2. Chapter Two exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics ©2002</i> <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources
Evaluation/Activities	Completion date:	Evaluation/Activities	Completion date:
<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p> <p>Test: On the concepts involving the Introduction to Statistics.</p>	<p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completed by:</p> <p>Comments:</p>

Week 3		Week 4	
Performance Standards		Performance Standards	
<p>The students will: 14.0 Students organize and describe distributions of data by using a number of different methods, including frequency tables, histograms, standard line graphs and bar graphs, stem-and-leaf displays, scatterplots, and box-and-whisker plots. 6.0 Students know the definition of the <i>variance of a discrete random variable</i> and can determine the variance for a particular discrete random variable.</p>		<p>The students will: 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>	
Unit/Topic/Lesson UNIT TWO Working with Data		Unit/Topic/Lesson UNIT THREE Probability	
<ol style="list-style-type: none"> 1. Measure of Variation 2. Measures of Position 3. Exploratory Data Analysis 		<ol style="list-style-type: none"> 1. Introduction to Probability Concepts 2. Fundamentals of Probability 3. Addition Rule 4. Basic Multiplication Rules 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 		<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To understand the empirical rule. 2. To understand variation. 3. To understand position of data. 	What is standard deviation and how do you find the percentile ranking?	<ol style="list-style-type: none"> 1. To work with basic rules of probability. 2. To understand how to make inference about the population based on probability. 	How do you use probability to infer about the population?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. Chapter Two lessons 2. Chapter Two exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. Chapter Three lessons 2. Chapter Three exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources
Evaluation/Activities	Completion date:	Evaluation/Activities	Completion date:
<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts involving Working with Data.</p>	<p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completed by:</p> <p>Comments:</p>

Week 5		Week 6	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces. 3.0 Students demonstrate an understanding of the notion of <i>discrete random variables</i> by using this concept to solve for the probabilities of outcomes, such as the probability of the occurrence of five or fewer heads in 14 coin tosses.</p>	
<p align="center">Unit/Topic/Lesson UNIT THREE Probability</p> <ol style="list-style-type: none"> Multiplication Rule of Complements Multiplication Rule Using Condition Probability Counting Rules 		<p align="center">Unit/Topic/Lesson UNIT FOUR Probability Distributions</p> <ol style="list-style-type: none"> Introduction to Probability Distributions Random Variables Binomial Probability Distributions 	
<p align="center">Mission and Expectations</p> <p>1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p>1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i></p>	
<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand different rules of probability. To understand the counting concept. To be able to use probability with these rules. 	<p align="center">Essential Question</p> <p>What is important about permutation, combination, tree diagrams and other methods of counting?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand binomial distribution. To work with rules of binomial distribution. 	<p align="center">Essential Question</p> <p>What is binomial distribution?</p>
<p align="center">Teacher Resources <i>Essentials of Statistics</i> ©2002</p> <ol style="list-style-type: none"> Chapter Three lessons Chapter Three exercises Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources <i>Essentials of Statistics</i> ©2002</p> <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources 	<p align="center">Teacher Resources <i>Essentials of Statistics</i> ©2002</p> <ol style="list-style-type: none"> Chapter Four lessons Chapter Four exercises Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources <i>Essentials of Statistics</i> ©2002</p> <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources
<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts involving Probability.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 7		Week 8	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 3.0 Students demonstrate an understanding of the notion of <i>discrete random variables</i> by using this concept to solve for the probabilities of outcomes, such as the probability of the occurrence of five or fewer heads in 14 coin tosses. 5.0 Students know the definition of the <i>mean of a discrete random variable</i> and can determine the mean for a particular discrete random variable 7.0 Students demonstrate an understanding of the standard distributions (normal, binomial, and exponential) and can use the distributions to solve for events in problems in which the distribution belongs to those families. 10.0 Students know the definitions of the <i>mean, median, and mode of distribution</i> of data and can compute each of them in particular situations.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces. 4.0 Students understand the notion of a <i>continuous random variable</i> and can interpret the probability of an outcome as the area of a region under the graph of the probability density function associated with the random variable. 7.0 Students demonstrate an understanding of the standard distributions (normal, binomial, and exponential) and can use the distributions to solve for events in problems in which the distribution belongs to those families.</p>	
<p align="center">Unit/Topic/Lesson UNIT FOUR Probability Distributions</p> <ol style="list-style-type: none"> Mean for Binomial Distribution Variance for Binomial Distribution Standard Deviation for Binomial Distribution 		<p align="center">Unit/Topic/Lesson UNIT FIVE Normal Probability Distributions</p> <ol style="list-style-type: none"> Introduction to Normal Probability Distributions The Standard Normal Distribution Finding Probabilities with Normal Distributions 	
<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>	
<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand the mean for binomial distribution. To understand variance for binomial distribution. To understand standard deviation for binomial distribution. 	<p align="center">Essential Question</p> <p>How do you use binomial distribution to infer about the population?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand normal distribution. To understand probabilities associated with normal distribution. 	<p align="center">Essential Question</p> <p>What is meant by normal distribution?</p>
<p align="center">Teacher Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> Chapter Four lessons Chapter Four exercises Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources 	<p align="center">Teacher Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> Chapter Five lessons Chapter Five exercises Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources
<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts involving Probability Distributions.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 9		Week 10	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 7.0 Students demonstrate an understanding of the standard distributions (normal, binomial, and exponential) and can use the distributions to solve for events in problems in which the distribution belongs to those families. 9.0 Students know the central limit theorem and can use it to obtain approximations for probabilities in problems of finite sample spaces in which the probabilities are distributed binomially.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 7.0 Students demonstrate an understanding of the standard distributions (normal, binomial, and exponential) and can use the distributions to solve for events in problems in which the distribution belongs to those families. 9.0 Students know the central limit theorem and can use it to obtain approximations for probabilities in problems of finite sample spaces in which the probabilities are distributed binomially.</p>	
<p align="center">Unit/Topic/Lesson UNIT FIVE Normal Probability Distributions</p> <p>1. Finding Values with Normal Distributions 2. The Central Limit Theorem</p>		<p align="center">Unit/Topic/Lesson UNIT FIVE Normal Probability Distributions</p> <p>1. Normal Distribution as an Approximation to Binomial Distribution 2. Review of Normal Probability Distributions</p>	
<p align="center">Mission and Expectations</p> <p>1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p>1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i></p>	
<p align="center">Objectives</p> <p>1. To understand the central limit theorem. 2. To understand its connection to normal distribution</p>	<p align="center">Essential Question</p> <p>What is the central limit theorem?</p>	<p align="center">Objectives</p> <p>1. To understand the approximation of binomial to a normal distribution. 2. To understand normal distributions.</p>	<p align="center">Essential Question</p> <p>How do you approximate binomial distribution to normal distribution?</p>
<p align="center">Teacher Resources <i>Essentials of Statistics</i> ©2002</p> <p>1. Chapter Five lessons 2. Chapter Five exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments</p>	<p align="center">Media Resources <i>Essentials of Statistics</i> ©2002</p> <p>1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources</p>	<p align="center">Teacher Resources <i>Essentials of Statistics</i> ©2002</p> <p>1. Chapter Five lessons 2. Chapter Five exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments</p>	<p align="center">Media Resources <i>Essentials of Statistics</i> ©2002</p> <p>1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources</p>
<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts involving Normal Probability Distributions.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 11		Week 12	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 11.0 Students compute the variance and the standard deviation of a distribution of data. 15.0 Students are familiar with the notions of a statistic of a distribution of values, of the sampling distribution of a statistic, and of the variability of a statistic.</p>		<p><i>The students will:</i> 11.0 Students compute the variance and the standard deviation of a distribution of data. 15.0 Students are familiar with the notions of a statistic of a distribution of values, of the sampling distribution of a statistic, and of the variability of a statistic.</p>	
Unit/Topic/Lesson UNIT SIX Estimates and Sample Sizes		Unit/Topic/Lesson UNIT SIX Estimates and Sample Sizes	
<ol style="list-style-type: none"> Introduction to Estimates and Sample Sizes Estimating a Population Mean: Large Samples 		<ol style="list-style-type: none"> Estimating a Population Mean: Small Samples Determining Sample Size Required to Estimate μ 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 		<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To work with large samples of data. To estimate mean of the population from large samples. 	How do you estimate μ from large samples?	<ol style="list-style-type: none"> To understand how to estimate μ from small samples. To determine the sample size required to estimate μ. 	How do you decide what is a proper sample size to estimate μ ?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> Chapter Six lessons Chapter Six exercises Teacher Made Worksheets Teacher Made Assessments 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> Chapter Six lessons Chapter Six exercises Teacher Made Worksheets Teacher Made Assessments 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources
Evaluation/Activities	Completion date:	Evaluation/Activities	Completion date:
<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completed by:</p> <p>Comments:</p>

Week 13		Week 14	
Performance Standards		Performance Standards	
<p><i>The students will:</i></p> <p>11.0 Students compute the variance and the standard deviation of a distribution of data. 18.0 Students determine the <i>P</i>-value for a statistic for a simple random sample from a normal distribution.</p>		<p><i>The students will:</i></p> <p>15.0 Students are familiar with the notions of a statistic of a distribution of values, of the sampling distribution of a statistic, and of the variability of a statistic. 18.0 Students determine the <i>P</i>-value for a statistic for a simple random sample from a normal distribution.</p>	
Unit/Topic/Lesson UNIT SIX Estimates and Sample Sizes		Unit/Topic/Lesson UNIT SEVEN Hypothesis Testing	
<ol style="list-style-type: none"> 1. Estimating a Population Proportion 2. Estimating a Population Variance 		<ol style="list-style-type: none"> 1. Introduction to Hypothesis Testing 2. Fundamentals of Hypothesis Testing 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 		<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To understand how to estimate the population proportion. 2. To understand how to estimate the population variance. 	<p>How do you estimate properly the population proportion and variance?</p>	<ol style="list-style-type: none"> 1. To understand why testing is necessary. 2. To understand hypothesis testing. 	<p>What is the hypothesis testing?</p>
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. Chapter Six lessons 2. Chapter Six exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. Chapter Seven lessons 2. Chapter Seven exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources
Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p> <p>Test: On the concepts involving estimates and Sample Size.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 15		Week 16	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 8.0 Students determine the mean and the standard deviation of a normally distributed random variable. 10.0 Students know the definitions of the <i>mean, median, and mode of distribution</i> of data and can compute each of them in particular situations. 17.0 Students determine confidence intervals for a simple random sample from a normal distribution of data and determine the sample size required for a desired margin of error. 18.0 Students determine the <i>P</i>-value for a statistic for a simple random sample from a normal distribution.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 11.0 Students compute the variance and the standard deviation of a distribution of data. 17.0 Students determine confidence intervals for a simple random sample from a normal distribution of data and determine the sample size required for a desired margin of error. 18.0 Students determine the <i>P</i>-value for a statistic for a simple random sample from a normal distribution.</p>	
<p align="center">Unit/Topic/Lesson UNIT SEVEN Hypothesis Testing</p> <ol style="list-style-type: none"> Testing a Claim About a Mean: Large Samples Testing a Claim About a Mean: Small Samples 		<p align="center">Unit/Topic/Lesson UNIT SEVEN Hypothesis Testing</p> <ol style="list-style-type: none"> Testing a Claim About a Proportion Testing a Claim About a Standard Deviation Testing a Claim About a Variance 	
<p align="center">Mission and Expectations</p> <p>1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p>1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i></p>	
<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand how to test about a mean with large samples. To understand how to test about a mean with small samples. 	<p align="center">Essential Question</p> <p>How to we test a claim about mean?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand how test about a proportion. To understand how test about a standard deviation. To understand how test about a variance. 	<p align="center">Essential Question</p> <p>How do you test a claim about a proportion, standard deviation, or variance?</p>
<p align="center">Teacher Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> Chapter Seven lessons Chapter Seven exercises Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources 	<p align="center">Teacher Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> Chapter Seven lessons Chapter Seven exercises Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources
<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts involving Hypothesis Testing.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 17		Week 18	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 11.0 Students compute the variance and the standard deviation of a distribution of data. 17.0 Students determine confidence intervals for a simple random sample from a normal distribution of data and determine the sample size required for a desired margin of error. 18.0 Students determine the <i>P</i>-value for a statistic for a simple random sample from a normal distribution.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 11.0 Students compute the variance and the standard deviation of a distribution of data. 17.0 Students determine confidence intervals for a simple random sample from a normal distribution of data and determine the sample size required for a desired margin of error. 18.0 Students determine the <i>P</i>-value for a statistic for a simple random sample from a normal distribution.</p>	
<p align="center">Unit/Topic/Lesson UNIT EIGHT Inferences from Two Samples</p> <ol style="list-style-type: none"> Introduction to Inferences from Two Samples Inferences About Two Samples Inferences About Two Samples Independent and Large Samples 		<p align="center">Unit/Topic/Lesson UNIT EIGHT Inferences from Two Samples</p> <ol style="list-style-type: none"> Inferences About Two Means Inferences About Matched Pairs 	
<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>	
<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand what makes two samples independent. To understand inference about two means that are independent and from large samples. 	<p align="center">Essential Question</p> <p>How do we infer about the population given two samples that are independent and large?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand what makes two samples matched pairs. To understand inference about two means if they are matched pairs. 	<p align="center">Essential Question</p> <p>What are matched pairs and how do we use them to infer about the population?</p>
<p align="center">Teacher Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> Chapter Eight lessons Chapter Eight exercises Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources 	<p align="center">Teacher Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> Chapter Eight lessons Chapter Eight exercises Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <p><i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources
<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 19		Week 20	
Performance Standards		Performance Standards	
<p>The students will: 11.0 Students compute the variance and the standard deviation of a distribution of data. 18.0 Students determine the <i>P</i>-value for a statistic for a simple random sample from a normal distribution.</p>		<p>The students will: 13.0 Students know what the <i>correlation coefficient of two variables</i> means and are familiar with the coefficient's properties.</p>	
Unit/Topic/Lesson UNIT EIGHT Inferences from Two Samples		Unit/Topic/Lesson UNIT NINE Correlation and Regression	
<ol style="list-style-type: none"> 1. Inferences About Two Proportions 2. Review of Inferences 		<ol style="list-style-type: none"> 1. Introduction and Overview of Correlation and Regression 2. Correlation 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 		<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To understand inference about two proportions. 2. To review all concepts involving inference. 	<p>How do we predict proportions for the population given two proportions from two different samples?</p>	<ol style="list-style-type: none"> 1. To understand correlation. 2. To understand to plot data. 3. To be able to read a scatter plot. 	<p>What is correlation?</p>
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. Chapter Eight lessons 2. Chapter Eight exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. Chapter Nine lessons 2. Chapter Nine exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources
Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts involving Inferences from Two Samples.</p>	<p>Completion date: Completed by: Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date: Completed by: Comments:</p>

Week 21		Week 22	
Performance Standards		Performance Standards	
<p>The students will: 6.0 Students know the definition of the <i>variance of a discrete random variable</i> and can determine the variance for a particular discrete random variable. 12.0 Students find the line of best fit to a given distribution of data by using least squares regression.</p>		<p>The students will: 8.0 Students determine the mean and the standard deviation of a normally distributed random variable. 15.0 Students are familiar with the notions of a statistic of a distribution of values, of the sampling distribution of a statistic, and of the variability of a statistic.</p>	
Unit/Topic/Lesson UNIT NINE Correlation and Regression		Unit/Topic/Lesson UNIT NINE Correlation and Regression	
<ol style="list-style-type: none"> 1. Regression 2. Linear Regression 3. Quadratic Regression 4. Exponential Regression 		<ol style="list-style-type: none"> 1. Variations and Prediction Intervals 2. Rank Correlation 3. Percentiles 4. Deciles 	
Mission and Expectations		Mission and Expectations	
<i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i>		<i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i>	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To understand the concept of regression. 2. To intercept a scatter plot by matching the correct function to the correlation. 	<p>How do we fit the correct function a given scatter plot?</p>	<ol style="list-style-type: none"> 1. To understand variation. 2. To understand prediction intervals. 3. To understand rank correlation. 4. To work with percentiles and deciles. 	<p>What is the importance of rank correlation?</p>
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Essentials of Statistics ©2002</i> <ol style="list-style-type: none"> 1. Chapter Nine lessons 2. Chapter Nine exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics ©2002</i> <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources 	<i>Essentials of Statistics ©2002</i> <ol style="list-style-type: none"> 1. Chapter Nine lessons 2. Chapter Nine exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics ©2002</i> <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources
Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date: Completed by: Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts involving Correlation and Regression.</p>	<p>Completion date: Completed by: Comments:</p>

Week 23		Week 24	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 19.0 Students are familiar with the <i>chi</i>-square distribution and <i>chi</i>-square test and understand their uses.</p>		<p><i>The students will:</i> 19.0 Students are familiar with the <i>chi</i>-square distribution and <i>chi</i>-square test and understand their uses.</p>	
Unit/Topic/Lesson UNIT TEN Chi-Square and Analysis of Variance		Unit/Topic/Lesson UNIT TEN Chi-Square and Analysis of Variance	
<ol style="list-style-type: none"> 1. Introduction and Overview of Chi-Square Analysis of Variance 2. Multinomial Experiments: Goodness-of-Fit 		<ol style="list-style-type: none"> 1. Contingency Tables 2. Independence and Homogeneity 3. Two-Way Frequency Tables 4. Test for Independence 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 		<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To understand Chi-square distribution. 2. To understand the goodness-of-fit. 3. To understand the degrees of freedom for Chi-square distribution. 	<p>What is Chi-squared distribution and what is meant by goodness-of-fit?</p>	<ol style="list-style-type: none"> 1. To understand Chi-square distribution for contingency tables. 2. To understand homogeneity and independence. 	<p>What is contingency tables and how to we test for independence and homogeneity?</p>
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. Chapter Ten lessons 2. Chapter Ten exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. Chapter Ten lessons 2. Chapter Ten exercises 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<i>Essentials of Statistics</i> ©2002 <ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Test Bank CD 3. Data Bank Disk for Data Manipulation 4. Internet Resources
Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 25		Week 26	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 19.0 Students are familiar with the <i>chi</i>-square distribution and <i>chi</i>-square test and understand their uses.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>	
<p align="center">Unit/Topic/Lesson UNIT TEN Chi-Square and Analysis of Variance</p> <ol style="list-style-type: none"> Analysis of Variance Test of Homogeneity Degrees of Freedom 		<p align="center">Unit/Topic/Lesson UNIT ELEVEN Election Theory</p> <ol style="list-style-type: none"> An Election Activity Group-Ranking Methods Group-Ranking Algorithms Group-Ranking Paradoxes 	
<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>	
<p align="center">Objectives</p> <ol style="list-style-type: none"> To be able to analysis variance. To understand when a collected data set is homogeneous. 	<p align="center">Essential Question</p> <p align="center">How do we analyze variance?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To work with various group-ranking situations. To understand how an election is 	<p align="center">Essential Question</p> <p align="center">How do we rank or elect the best choice of a group?</p>
<p align="center">Teacher Resources <i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> Chapter Ten lessons Chapter Ten exercises Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources <i>Essentials of Statistics ©2002</i></p> <ol style="list-style-type: none"> PowerPoint Presentations Test Bank CD Data Bank Disk for Data Manipulation Internet Resources 	<p align="center">Teacher Resources <i>Discrete Mathematics Through Applications ©1994</i></p> <ol style="list-style-type: none"> Chapter One lessons Chapter One activities Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> PowerPoint Presentations Internet Activities TI-nspire Graphing Calculators
<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts involving Chi-Square and Analysis of Variance.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 27		Week 28	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>	
<p align="center">Unit/Topic/Lesson UNIT ELEVEN Election Theory</p> <ol style="list-style-type: none"> Arrow's Conditions and Approval Voting Weighted Voting Voting Power Review of Election Theory 		<p align="center">Unit/Topic/Lesson UNIT TWELVE Fair Division</p> <ol style="list-style-type: none"> Fair Division Concepts and Activities Estate Division 	
<p align="center">Mission and Expectations</p> <p>1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p>1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i></p>	
<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand how weighted voting works in practice. To understand how voting power works in practice. 	<p align="center">Essential Question</p> <p>What is election theory?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand how to apply fair division. To fairly divide an estate. 	<p align="center">Essential Question</p> <p>What is considered fair division?</p>
<p align="center">Teacher Resources</p> <p><i>Discrete Mathematics Through Applications</i> ©1994</p> <ol style="list-style-type: none"> Chapter One lessons Chapter One activities Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> PowerPoint Presentations Internet Activities TI-nspire Graphing Calculators 	<p align="center">Teacher Resources</p> <p><i>Discrete Mathematics Through Applications</i> ©1994</p> <ol style="list-style-type: none"> Chapter Two lessons Chapter Two activities Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> PowerPoint Presentations Internet Activities TI-nspire Graphing Calculators
<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts of Election Theory.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 29		Week 30	
Performance Standards		Performance Standards	
<p>The students will: 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>		<p>The students will: 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>	
Unit/Topic/Lesson UNIT TWELVE Fair Division		Unit/Topic/Lesson UNIT TWELVE Fair Division	
<ol style="list-style-type: none"> 1. Apportionment Algorithms 2. Apportionment Paradoxes 		<ol style="list-style-type: none"> 1. Fair Division Algorithms 2. The Continuous Case 3. Mathematical Induction 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 		<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To understand algorithms. 2. To understand how paradoxes arise in practice. 	How do you use an algorithm to understand a paradox?	<ol style="list-style-type: none"> 1. To understand the concept of fair division. 2. To understand how mathematical induction works. 	What are some paradoxes that are put to rest with mathematical induction?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Discrete Mathematics Through Applications</i> ©1994 <ol style="list-style-type: none"> 1. Chapter Two lessons 2. Chapter Two activities 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Internet Activities 3. TI-nspire Graphing Calculators 	<i>Discrete Mathematics Through Applications</i> ©1994 <ol style="list-style-type: none"> 1. Chapter Two lessons 2. Chapter Two activities 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Internet Activities 3. TI-nspire Graphing Calculators
Evaluation/Activities		Evaluation/Activities	
Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.	Completion date: Completed by: Comments:	Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts of Fair Division.	Completion date: Completed by: Comments:

Week 31		Week 32	
Performance Standards		Performance Standards	
<p>The students will: 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>		<p>The students will: 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>	
Unit/Topic/Lesson UNIT THIRTEEN Matrix Operations and Applications		Unit/Topic/Lesson UNIT THIRTEEN Matrix Operations and Applications	
<ol style="list-style-type: none"> 1. Addition and Subtraction of Matrices 2. Multiplication of Matrices 		<ol style="list-style-type: none"> 1. Population Growth 2. The Leslie Model 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i> 		<ol style="list-style-type: none"> 1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i> 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To add and subtract matrices. 2. To multiply matrices. 	How do you multiply and when can you multiply two matrices?	<ol style="list-style-type: none"> 1. To understand population growth under the Leslie Model. 2. To understand the mathematics behind population growth. 	How does the Leslie Model explain population growth?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Discrete Mathematics Through Applications</i> ©1994 <ol style="list-style-type: none"> 1. Chapter Three lessons 2. Chapter Three activities 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Internet Activities 3. TI-nspire Graphing Calculators 	<i>Discrete Mathematics Through Applications</i> ©1994 <ol style="list-style-type: none"> 1. Chapter Three lessons 2. Chapter Three activities 3. Teacher Made Worksheets 4. Teacher Made Assessments 	<ol style="list-style-type: none"> 1. PowerPoint Presentations 2. Internet Activities 3. TI-nspire Graphing Calculators
Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts involving Matrix Operations and Applications.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 33		Week 34	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 1.0 Students solve probability problems with finite sample spaces by using the rules for addition, multiplication, and complementation for probability distributions and understand the simplifications that arise with independent events. 2.0 Students know the definition of <i>conditional probability</i> and use it to solve for probabilities in finite sample spaces.</p>	
<p align="center">Unit/Topic/Lesson UNIT FOURTEEN Graphs, Applications, and Subgraphs</p> <ol style="list-style-type: none"> Modeling Projects Critical Paths Graphs (Vocabulary and Representations) Euler Circuits and Paths 		<p align="center">Unit/Topic/Lesson UNIT FOURTEEN Graphs, Applications, and Subgraphs</p> <ol style="list-style-type: none"> Hamiltonian Circuits and Paths Graph Coloring Planarity and Coloring The Traveling Salesperson Problem Shortest Route Problems 	
<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>	
<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand the mathematical representation of graphs. To understand the concepts of critical paths. To understand Euler circuits and paths. 	<p align="center">Essential Question</p> <p align="center">What is Euler Circuit?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To understand Hamiltonian circuits and paths. To work with concept of graph coloring. To understand the traveling salesperson problem. To work with and understand the shortest route problem. 	<p align="center">Essential Question</p> <p align="center">What is a Hamiltonian path?</p>
<p align="center">Teacher Resources</p> <p><i>Discrete Mathematics Through Applications</i> ©1994</p> <ol style="list-style-type: none"> Chapter Four lessons Chapter Four activities Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> PowerPoint Presentations Internet Activities TI-nspire Graphing Calculators 	<p align="center">Teacher Resources</p> <p><i>Discrete Mathematics Through Applications</i> ©1994</p> <ol style="list-style-type: none"> Chapter Four and Five lessons Chapter Four and Five activities Teacher Made Worksheets Teacher Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> PowerPoint Presentations Internet Activities TI-nspire Graphing Calculators
<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts involving Graphs, Applications, and Subgraphs.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

