AP® Statistics

STANDARDS	IFD
PLC HUB	OTHER

TERM 1 / TERM 2

PACING	AP® UNIT TOPICS	TEXT/RESOURCES	AP® LEARNING OBJECTIVES	ASSESSMENT/PROJECTS
9 Days	**Unit 3: Collecting Data**	***https://apcentral.collegeboard.org/media/pdf/ap-statistics-course-and-exam-description.pdf***	3.1 Introducing Statistics: Do the Data We Collected Tell the Truth? 3.2 Introduction to Planning a Study 3.3 Random Sampling and Data Collection 3.4 Potential Problems with Sampling 3.5 Introduction to Experimental Design 3.6 Selecting an Experimental Design 3.7 Inference and Experiments	Unit 3 Quiz Unit 3 Test
PACING	AP® UNIT TOPICS	TEXT/RESOURCES	AP® LEARNING OBJECTIVES	ASSESSMENT/PROJECTS
10 Days	Unit 1: Exploring One-Variable Data		1.1 Introducing Statistics: What Can We Learn from Data? 1.2 The Language of Variation: Variables 1.3 Representing a Categorical Variable with Tables 1.4 Representing a Categorical Variable with Graphs	Mid Unit 1 Quiz Mid Unit 1 Test Unit 1 Test

			1.5 Representing a Quantitative Variable with Graphs 1.6 Describing the Distribution of a Quantitative Variable 1.7 Summary Statistics for a Quantitative Variable 1.8 Graphical Representations of Summary Statistics 1.9 Comparing Distributions of a Quantitative Variable 1.10 The Normal Distribution	
PACING	AP® UNIT TOPICS	TEXT/RESOURCES	AP® LEARNING OBJECTIVES	ASSESSMENT/PROJECTS
7 Days	Unit 2: Exploring Two-Variable Data		2.1 Introducing Statistics: Are Variables Related? 2.2 Representing Two Categorical Variables 2.3 Statistics for Two Categorical Variables 2.4 Representing the Relationship Between Two Quantitative Variables 2.5 Correlation 2.6 Linear Regression Models 2.7 Residuals 2.8 Least Squares Regression 2 2.9 Analyzing Departures from	Unit 2 Quiz Unit 2 Test

			Linearity	
10 Days	Unit 4: Probability, Random Variables, and Probability Distribution		4.1 Introducing Statistics: Random and Non-Random Patterns? 4.2 Estimating Probabilities Using Simulation 4.3 Introduction to Probability 4.4 Mutually Exclusive Events 4.5 Conditional Probability 4.6 Independent Events and Unions of Events 4.7 Introduction to Random Variables and Probability Distributions 4.8 Mean and Standard Deviation of Random Variables 4.9 Combining Random Variables 4.10 Introduction to the Binomial Distribution 4.11 Parameters for a Binomial Distribution 4.12 The Geometric Distribution	Unit 4 Part 1 Quiz Unit 4 Part 2 Quiz Unit 4 Part 1 Test Unit 4 Part 2 Test
10 Days	Unit 5: Sampling Distributions		5.1 Introducing Statistics: Why Is My Sample Not Like Yours? 5.2 The Normal Distribution, Revisited	Unit 5 Quiz Unit 5 Test

			5.3 The Central Limit Theorem 5.4 Biased and Unbiased Point Estimates 5.5 Sampling Distributions for Sample Proportions 5.6 Sampling Distributions for Differences in Sample Proportions 5.7 Sampling Distributions for Sample Means 5.8 Sampling Distributions for Differences in Sample Means	
10 Days	Unit 6: Inference for Categorical Data		6.1 Introducing Statistics: Why Be Normal? 6.2 Constructing a Confidence Interval for a Population Proportion 6.3 Justifying a Claim Based on a Confidence Interval for a Population Proportion 6.4 Setting Up a Test for a 1 Population Proportion 6.5 Interpreting p-Values 6.6 Concluding a Test for a Population Proportion 6.7 Potential Errors When Performing Tests 6.8 Confidence Intervals for the Difference of Two Proportions	Unit 6 Quiz 1 Unit 6 Quiz 2 Unit 6 Test

			6.9 Justifying a Claim Based on a Confidence Interval for a Difference of Population Proportions 6.10 Setting Up a Test for the Difference of Two Population Proportions 6.11 Carrying Out a Test for the Difference of Two Population Proportions	
10 Days	Unit 7: Inference for Quantitative Data		7.1 Introducing Statistics: Should I Worry About Error? 7.2 Constructing a Confidence Interval for a Population Mean 7.3 Justifying a Claim About a Population Mean Based on a Confidence Interval 7.4 Setting Up a Test for a 1 Population Mean 7.5 Carrying Out a Test for a Population Mean 7.6 Confidence Intervals for the Difference of Two Means 7.7 Justifying a Claim About the Difference of Two Means Based on a Confidence Interval 7.8 Setting Up a Test for the Difference of Two Population Means 7.9 Carrying Out a Test for the Difference	Unit 7 Quiz Unit 7 Test

			of Two Population Mean 7.10 Skills Focus: Selecting, Implementing, and Communicating Inference Procedures	
4 Days	Unit 8: Inference for Chi-Square Data		8.1 Introducing Statistics: Are My Results Unexpected? 8.2 Setting Up a Chi-Square Goodness of Fit Test 8.3 Carrying Out a Chi-Square Test for Goodness of Fit 8.4 Expected Counts in Two-Way Tables 8.5 Setting Up a Chi-Square Test for Homogeneity or Independence 8.6 Carrying Out a Chi-Square Test for Homogeneity or Independence	Unit 8 Test
10 Days	***AP Statistic Exam Review***			