

FIRST QUARTER	AP STATISTICS	2007-08
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**** NOTE: Include AP review throughout each quarter.**

Number of Blocks	Concept	Text Reference
	UNIT 1 - Exploring and Understanding Data	
	Display & interpret display of data as to shape, outliers, clusters, & gaps	Ch. 2, 3, 4
	Compare distributions of univariate data	
	Summarizing distributions of univariate data using measures of center & spread	Ch. 5
	Describe effect of outliers on summary measures	
	Properties of normal distributions	Ch. 6
	Standardization to measure position, quartiles & percentiles	
	Use tables & calculators to compute standard Normal calculations	
	UNIT 2 - Exploring Relationships Between Variables	
	Use scatterplots to describe association of data: correlation & linearity	Ch. 7 - 10
	Least squares regression line	
	Residual plots, outliers & influential points	
	Transformations to achieve linearity: logarithmic & power transformations	

Blocks in this quarter



SECOND QUARTER	AP STATISTICS	2007-08
** NOTE: Include AP review throughout each quarter.		
Number of Blocks	Concept	Text Reference
UNIT 3 – Gathering Data		
	Understanding randomness Census, survey, observational study, & experiment Sources of bias in surveys & confounding in experiments Control groups, placebo, and placebo effects Blinding and double blinding to reduce confounding Replication and blocking to reduce variation	Ch. 11 - 13
UNIT 4 – Randomness and Probability		
	Laws of probability – (addition rule, multiplication rule, conditional probability) Mutually exclusive and independent events Simulation of probability distributions Discrete random variables & their probability distributions Mean & standard deviation & expected value of a random variable distribution Continuous random variables Binomial distributions Geometric distributions	Ch.14 - 17 Ch. 11

Blocks in this quarter (2 blocks for Semester Exams)

THIRD QUARTER	AP STATISTICS	2007-08
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** NOTE: Include AP review throughout each quarter.		
Number of Blocks	Concept	Text Reference
	STATISTICAL INFERENCE	
	UNIT 5 - From the Data at Hand to the World at Large	Ch. 18 - 22
	Sampling distributions of sample means and sample proportions	
	Central Limit Theorem	
	Sampling distribution of a difference between two independent sample proportions	
	Sampling distribution of a difference between two independent sample means	
	Confidence intervals for proportions	
	Type I, Type II errors, power	
	Comparing two proportions	
	UNIT 6 - Learning About the World	
	Inferences about means (confidence intervals and testing hypotheses)	Ch. 23 - 25
	Comparing means	
	Matched pairs Samples and blocks	
	UNIT 7 - Inference when variables are Related	
	Comparing counts (Chi Square Tests)	Ch. 26

blocks in Quarter



FOURTH QUARTER	AP STATISTICS	2007-08
** NOTE: Include AP review throughout each quarter.		
Number of Blocks	Concept	Text Reference
UNIT 7 - Inference when variables are related (continued)		
	Inference for regression (slope of least squares line)	Ch. 27
AP REVIEW		
	Statistics project	
SPECIAL NOTES:		
	* The units labeled throughout are from the adopted textbook unit names.	
	* The 4 topics to be covered for AP Statistics according to the AP Statistics Course Description from College Board are:	
	I. Exploring Data	
	II. Sampling and Experimentation	
	III. Anticipating Patterns	
	IV. Statistical Inference	
	The Textbook covers: Topic I. in units 1&2 (Ch. 1-10)	
	Topic II. in units 3 (Ch. 11-13)	
	Topic III + IV. in units 4-7 (Ch. 14-27)	

Blocks in this quarter (2 blocks for Semester Exams)