

AP Statistics Scope and Sequence 2025-2026

Learning Objectives Distribution among Units

	VAR-1	VAR-2	VAR-3	VAR-4	VAR-5	VAR-6	VAR-7	VAR-8	UNC-1	UNC-2	UNC-3	UNC-4	DAT-1	DAT-2	DAT-3
Unit 1	Х	Х							Χ						
Unit 2	Х								Х				Х		
Unit 3	Х		Χ											Χ	
Unit 4	Х			Χ	Χ					Х					
Unit 5	Х					Χ					Χ				
Unit 6	Х					Х						Х			Χ
Unit 7	Х						Х					Х			Χ
Unit 8	Х							Χ							Χ
Unit 9	Х						Х					Х			Χ
Unit 10	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ



AP Statistics

Scope and Sequence 2025-2026

Grading Period 1

Unit 1: Exploring One-Variable Data

Estimated Date Range: Aug. 12 – Sept. 4 (17 total school days) Instructional & Re-engagement Days in Unit: 17 days

		Assessments					
STATE/NATIONAL ASSESSMENT(S) N/A		DISTRICT ASSESSMENT(S) N/A	COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A				
Concepts within the Unit	Learning Objectives						
Concept #1: Intro to Statistics and	VAR-1.A	Identify questions to be answered based on variation	n in one-variable data.				
Categorical Data (Topics 1.1, 1.2, 1.3, and	VAR-1.B	Identify variables in a set					
1.4)	VAR-1.C	Classify types of variables					
	UNC-1.A	Represent categorical data using frequency or relative	ve frequency tables.				
Suggested Days: 3	UNC-1.B Describe categorical data represented in frequency or relative frequency tables.						
	UNC-1.C Represent categorical data graphically						
Concept #2: Representing and	UNC-1.F Classify types of quantitative variables.						
Describing Quantitative Data (Topics 1.5,	UNC-1.G Represent quantitative data graphically.						
1.6, 1.7, 1.8)	UNC-1.H Describe the characteristics of quantitative data distributions.						
	UNC-1.I Calculate measures of center and position for quantitative data.						
Suggested Days: 5	UNC-1.J Calculate measures of variability for quantitative data.						
	UNC-1.K Explain the selection of a particular measure of center and/or variability for describing a set of						
	quantitative data.						
	UNC-1.L Represent summary statistics for quantitative data graphically.						
	UNC-1.M Describe summary statistics of quantitative data represented graphically.						
Concept #3: Comparing Distributions of	UNC-1.N	I Compare graphical representations for multiple sets	of quantitative data.				
Quantitative Data (Topic 1.9)	UNC-1.C	Compare summary statistics for multiple sets of qua	ntitative data.				
Suggested Days: 2							





Concept #4: The Normal Distribution	VAR-2.A	Compare a data distribution to the normal distribution	on model.				
(Topic 1.10)		VAR-2.B Determine proportions and percentiles from a normal distribution.					
		VAR-2.C Compare measures of relative position in data sets.					
Suggested Days: 4	Suggested Days: 4						
		Unit 2: Exploring Two-Variable Data					
		Estimated Date Range: Sept. 5 – Sept. 23 (13 total school days) Instructional & Re-engagement Days in Unit: 13 days					
		Assessments					
CTATE/NIATIONIAL ACCECCATINETS	-1						
STATE/NATIONAL ASSESSMENT(S) N/A DISTRICT ASSESSMENT(S) N/A Odministered within designated concep N/A N/A							
Concepts within the Unit		Learning Obje	ectives				
Concept #1: Representing and Analyzing	VAR-1.D	Identify questions to be answered about possible rela	ationships in data				
Two Categorical Variables (Topics 2.1,	UNC-1.P	Compare numerical and graphical representations fo	r two categorical variables.				
2.2, 2.3)	UNC-1.C	Calculate statistics for two categorical variables					
	UNC-1.R	Compare statistics for two categorical variables.					
Suggested Days: 4							
Concept #2: Representing and Analyzing	UNC-1.S	Represent bivariate quantitative data using scatterple	ots.				
Two Quantitative Variables (Topics 2.4,	DAT-1.A	Describe the characteristics of a scatter plot					
2.5, 2.6, 2.7, 2.8, 2.9)	DAT-1.B	Determine the correlation for a linear relationship.					
	DAT-1.C	Interpret the correlation for a linear relationship.					
Suggested Days: 7	DAT-1.D	Calculate a predicted response value using a linear re	egression model.				
	DAT-1.E	Represent differences between measured and predic	ted responses using residual plots				
	DAT-1.F	Describe the form of association of bivariate data using	ng residual plots				
	DAT-1.G Estimate parameters for the least-squares regression line model.						
	DAT-1.H	Interpret coefficients for the least-squares regression	n line model.				
DAT-1.I Identify influential points in regression.							
		Unit 3: Collecting Data					
	Estimated Date Range: Sept. 24 – Oct. 10 (12 total school days)						

Estimated Date Range: Sept. 24 – Oct. 10 (12 total school days)
Instructional & Re-engagement Days in Unit: 11 days



		Assessments					
STATE/NATIONAL ASSESSMENT(S) PSAT (10/2) 1 day		DISTRICT ASSESSMENT(S) N/A	COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A				
Concepts within the Unit		Learning Objectives					
Concept #1: Sampling (Topics 3.1, 3.2,	VAR-1.E	Identify questions to be answered about data coll	ection methods.				
3.3 and 3.4)		Identify the type of a study.					
		Identify appropriate generalizations and determin					
Suggested Days: 4		Identify a sampling method, given a description of	•				
		Explain why a particular sampling method is or is r	, , ,				
	DAT-2.E	Identify potential sources of bias in sampling meth	ods.				
Concept #2: Experimental Design (Topics	VAR-3.A Identify the components of an experiment.						
3.5, 3.6 and 3.7)		VAR-3.B Describe elements of a well-designed experiment.					
	VAR-3.C Compare experimental designs and methods.						
Suggested Days: 5	VAR-3.D Explain why a particular experimental design is appropriate.						
,	VAR-3.E	.E Interpret the results of a well-designed experiment.					
		Grading Period 2					
	Unit 4	Probability, Random Variables, and Probability D					
		Estimated Date Range: Oct. 21 – Nov. 14 (19 total school	days)				
		Instructional & Re-engagement Days in Unit: 19 days					
		Assessments					
STATE/NATIONAL ASSESSMENT(S		DISTRICT ASSESSMENT(S)	COMMON FORMATIVE ASSESSMENTS (CFAs)				
N/A		N/A	(administered within designated concept) N/A				
Concepts within the Unit	\/AD 1 F	Learning O	bjectives				
Concept #1: Randomness and Simulation		Identify questions suggested by patterns in data.					
(Topics 4.1 and 4.2)	UNC-2.A	Estimate probabilities using simulation.					

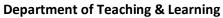


Suggested Days: 3		
Concept #2: Probability (Topics 4.3, 4.4,	VAR-4.A Calculate probabilities for events and their complements.	
4.5, and 4.6)	VAR-4.B Interpret probabilities for events.	
	VAR-4.C Explain why two events are (or are not) mutually exclusive.	
Suggested Days: 5	VAR-4.D Calculate conditional probabilities	
	VAR-4.E Calculate probabilities for independent events and for the union of two events.	
Concept #3: Random Variables (Topics	VAR-5.A Represent the probability distribution for a discrete random variable.	
4.7, 4.8, and 4.9)	VAR-5.B Interpret a probability distribution.	
	VAR-5.C Calculate parameters for a discrete random variable.	
Suggested Days: 4	VAR-5.D Interpret parameters for a discrete random variable.	
	VAR-5.E Calculate parameters for linear combinations of random variables.	
	VAR-5.F Describe the effects of linear transformations of parameters of random variables.	
Concept #4: Probability Distributions	UNC-3.A Estimate probabilities of binomial random variables using data from a simulation.	
(Topics 4.10, 4.11, and 4.12)	UNC-3.B Calculate probabilities for a binomial distribution.	
	UNC-3.C Calculate parameters for a binomial distribution.	
Suggested Days: 4	UNC-3.D Interpret probabilities and parameters for a binomial distribution	
	UNC-3.E Calculate probabilities for geometric random variables.	
	UNC-3.F Calculate parameters of a geometric distribution.	
	UNC-3.G Interpret probabilities and parameters for a geometric distribution.	

Unit 5: Sampling Distributions

Estimated Date Range: Nov. 17 – Dec. 20 (20 total school days)
Estimated Time Frame: 16 days

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Assessments									
STATE/NATIONAL ASSESSMENT(S) N/A	DISTRICT ASSESSMENT(S) N/A	COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A	Semester Exams (4 days) Testing Window (12/16 – 12/19)						
Concepts within the Unit	Learning Objectives								
Concept #1: The Normal Distribution an	VAR-1.G Identify questions suggested by variation in statistics for samples collected from the same population.								
the Central Limit Theorem (Topics 5.1,	VAR-6.A Calculate the probability that a particular value lies in a given interval of a normal distribution.								
5.2, and 5.3)	VAR-6.B Determine the interval as	sociated with a given area in a normal dis	stribution.						





Suggested Days: 4

Suggested Days: 3	UNC-3.H Estimate sampling distributions using simulation.						
Concept #2: Sampling Distributions for	UNC-3.I Explain why an estimator is or is not unbiased.						
Proportions (Topics 5.4, 5.5 and 5.6)		UNC-3.J Calculate estimates for a population parameter.					
		etermine parameters of a sampling distribution	for sample proportions.				
Suggested Days: 4	UNC-3.L Determine whether a sampling distribution for a sample proportion can be described as approximately normal.						
	UNC-3.M	Interpret probabilities and parameters for a sam	pling distribution for a sample proportion.				
	UNC-3.N I	Determine parameters of a sampling distribution	for a difference in sample proportions.				
	UNC-3.O Determine whether a sampling distribution for a difference of sample proportions can be described as approximately normal.						
	UNC-3.P I	nterpret probabilities and parameters for a samp	oling distribution for a difference in proportions				
Concept #3: Sampling Distributions for	UNC-3.Q Determine parameters for a sampling distribution for sample means						
Means (Topics 5.7 and 5.8)	UNC-3.R	etermine whether a sampling distribution of a s	ample mean can be described as approximately norma				
	UNC-3.S I	nterpret probabilities and parameters for a samp	oling distribution for a sample mean.				
Suggested Days: 4	UNC-3.T	etermine parameters of a sampling distribution	for a difference in sample means.				
		Grading Period 3					
		Unit 6: Inference for Categorical Data: Proporti	ons				
		Estimated Date Range: Jan. 8 – Feb. 6 (21 total school da	ys)				
		Instructional & Re-engagement Days in Unit: 21 days					
		Assessments					
STATE/NATIONAL ASSESSMENT(S)	DISTRICT ASSESSMENT(S)	COMMON FORMATIVE ASSESSMENTS (CFAs)				
N/A	N/A (administered within designated concept) N/A						
Concepts within the Unit	Learning Objectives						
Concept #1: Confidence Intervals for	VAR-1.H Identify questions suggested by variation in the shapes of distributions of samples taken from the same						
Proportions (Topics 6.1, 6.2, and 6.3)	population.						

UNC-4.A Identify an appropriate confidence interval procedure for a population proportion. UNC-4.B Verify the conditions for calculating confidence intervals for a population proportion.





	UNC-4.C Determine the margin of error for a given sample size and an estimate for the sample size that will result in a given margin of error for a population proportion. UNC-4.D Calculate an appropriate confidence interval for a UNC-4.E Calculate an interval estimate based on a confidence interval for a population proportion. UNC-4.F Interpret a confidence interval for a population proportion. UNC-4.G Justify a claim based on a confidence interval for a population proportion. UNC-4.H Identify the relationships between sample size, width of a confidence interval, confidence level, and margin of error for a population proportion.
Concept #2: Testing Hypotheses about	VAR-6.D Identify the null and alternative hypotheses for a population proportion.
Proportions (Topics 6,4, 6.5, and 6.6)	VAR-6.E Identify an appropriate testing method for a population proportion.
	VAR-6.F Verify the conditions for making statistical inferences when testing a population proportion.
Suggested Days: 5	VAR-6.G Calculate an appropriate test statistic and p-value for a population proportion.
	DAT-3.A Interpret the p-value of a significance test for a population proportion.
	DAT-3.B Justify a claim about the population based on the results of a significance test for a population proportion.
Concept #3: Type I and Type II Errors	UNC-5.A Identify Type I and Type II errors.
(Topic 6.7)	UNC-5.B Calculate the probability of a Type I and Type II errors.
	UNC-5.C Identify factors that affect the probability of errors in significance testing.
Suggested Days: 3	UNC-5.D Interpret Type I and Type II errors.
Concept #4: Confidence Intervals for the	UNC-4.I Identify an appropriate confidence interval procedure for a comparison of population proportions.
Difference of Two Proportions (Topics	UNC-4.J Verify the conditions for calculating confidence intervals for a difference between population proportions.
6.8 and 6.9)	UNC-4.K Calculate an appropriate confidence interval for a comparison of population proportions.
Suggested days: 3	UNC-4.L Calculate an interval estimate based on a confidence interval for a difference of proportions
	UNC-4.M Interpret a confidence interval for a difference of proportions.
	UNC-4.N Justify a claim based on a confidence interval for a difference of proportions.
Concept #5: Test for Difference of Two	VAR-6.H Identify the null and alternative hypotheses for a difference of two population proportions.
Population Proportions (Topics 6.10 and	VAR-6.I Identify an appropriate testing method for the difference of two population proportions.
6.11)	VAR-6.J Verify the conditions for making statistical inferences when testing a difference of two population
Constal de la 2	proportions.
Suggested days: 3	VAR-6.K Calculate an appropriate test statistic for the difference of two population proportions.
	DAT-3.C Interpret the p-value of a significance test for a difference of population proportions.
	DAT-3.D Justify a claim about the population based on the results of a significance test for a difference of
	population proportions.



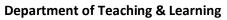
		Unit 7: Inference for Quantitative Data: Mea	ns			
		Estimated Date Range: Feb. 9 – Mar. 9 (18 total school da				
		Instructional & Re-engagement Days in Unit: 17 days	•			
		Assessments				
STATE/NATIONAL ASSESSMENT(S)	COMMON FORMATIVE ASSESSMENTS (CFAs)				
K-12 TELPAS WINDOW (2/17 – 3/2	7)	N/A	(administered within designated concept)			
SAT (3/4) 1 day		N/A				
Concepts within the Unit		Learning (Phiertives			
Concept #1: Confidence Intervals for	VΔR-1 I	dentify questions suggested by probabilities of er	•			
Means (Topics 7.1, 7.2, and 7.3)		Describe t-distributions.	Tota in statistical interence			
(Topies 7.1, 7.2, and 7.3)		Identify an appropriate confidence interval proce	edure for a population mean, including the mean			
Suggested Days: 4		ce between values in matched pairs.	and the control of th			
7,		· • • • • • • • • • • • • • • • • • • •	ntervals for a population mean, including the mean			
	difference between values in matched pairs.					
	UNC-4.C	Determine the margin of error for a given sample	e size for a one-sample t-interval.			
	UNC-4.R	Calculate an appropriate confidence interval for a	a population mean, including the mean difference			
	betweer	values in matched pairs.				
	UNC-4.S Interpret a confidence interval for a population mean, including the mean difference between values in					
	matched pairs					
	UNC-4.T Justify a claim based on a confidence interval for a population mean, including the mean difference					
		n values in matched pairs.				
	UNC-4.U Identify the relationships between sample size, width of a confidence interval, confidence level, and					
		of error for a population mean.				
Concept #2: Tests for Populations Means			ulation mean with unknown, σ , including the mean			
(Topics 7.4 and 7.5)		ce between values in matched pairs.				
Suggested Davis 4			population mean with unknown, σ , including the mean			
Suggested Days: 4		ce between values in matched pairs.				
	matched	· · · · · · · · · · · · · · · · · · ·	mean, including the mean difference between values in			
			ation mean, including the mean difference between			
		n matched pairs.	adon mean, moldang the mean difference between			
		·	opulation mean, including the mean difference between			
		n matched pairs.				





	DAT-3.F Justify a claim about the population based on the results of a significance test for a population mean.
Concept #3: Confidence Intervals for the Difference of Two Means (Topics 7.6 and 7.7) Suggested Days: 3	UNC-4.V Identify an appropriate confidence interval procedure for a difference of two population means. UNC-4.W Verify the conditions to calculate confidence intervals for the difference of two population means. UNC-4.X Determine the margin of error for the difference of two population means. UNC-4.Y Calculate an appropriate confidence interval for a difference of two population means. UNC-4.Z Interpret a confidence interval for a difference of population means. UNC-4.AA Justify a claim based on a confidence interval for a difference of population means UNC-4.AB Identify the effects of sample size on the width of a confidence interval for the difference of two means.
Concept #4: Tests for the Difference of Two Population Means (Topics 7.8, 7.9, and 7.10) Suggested Days: 3	VAR-7.F Identify an appropriate selection of a testing method for a difference of two population means. VAR-7.G Identify the null and alternative hypotheses for a difference of two population means. VAR-7.H Verify the conditions for the significance test for the difference of two population means. VAR-7.I Calculate an appropriate test statistic for a difference of two means. DAT-3.G Interpret the p-value of a significance test for a difference of population means. DAT-3.H Justify a claim about the population based on the results of a significance test for a difference of two population means in context.
Uni	t 8: Inference for Categorical Data: Chi Square (Continues in Grading Period 4) Estimated Date Range: Mar. 10 – Apr. 6 (14 total school days) Instructional & Re-engagement Days in Unit: 14 days (4 days in GP3 and 10 days in GP4)
	Grading Period 4
	Unit 8: Inference for Categorical Data: Chi Square (Continued) Estimated Date Range: Mar. 10 – Apr. 6 (14 total school days) Instructional & Re-engagement Days in Unit: 14 days (4 days in GP3 and 10 days in GP4)

Assessments





STATE/NATIONAL ASSESSMENT(S		DISTRICT ASSESSMENT(S)	COMMON FORMATIVE ASSESSMENTS (CFAs)				
K-12 TELPAS WINDOW (2/17 – 3/27)		N/A	(administered within designated concept) N/A				
Concepts within the Unit		Learning	Objectives				
Concept #1: Chi Square Goodness of Fit	VAR-1.J Ide	entify questions suggested by variation betwee	n observed and expected counts in categorical data.				
Tests (Topics 8.1, 8.2, and 8.3)	VAR-8.A D	escribe chi-square distributions.					
	VAR-8.B Id	entify the null and alternative hypotheses in a	test for a distribution of proportions in a set of categorical				
Suggested Days: 5	data						
	VAR-8.C Id	entify an appropriate testing method for a dist	ribution of proportions in a set of categorical data.				
	VAR-8.D Ca	alculate expected counts for the chi-square tes	t for goodness of fit.				
	VAR-8.E Ve	rify the conditions for making statistical infere	nces when testing goodness of fit for a chi-square				
	distributio						
	VAR-8.F Calculate the appropriate statistic for the chi-square test for goodness of fit.						
		etermine the p-value for chi-square test for goo	<u> </u>				
		erpret the p-value for the chi-square test for go					
	DAT-3.J Jus	tify a claim about the population based on the	results of a chi-square test for goodness of fit.				
Concept #2: Chi Square Test for	VAR-8.H C	alculate expected counts for two-way tables of	categorical data.				
Homogeneity or Independence (Topics	VAR-8.1 Ide	ntify the null and alternative hypotheses for a	chi-square test for homogeneity or independence.				
8.4, 8.5, 8.6, and 8.7)	VAR-8.J Ide	entify an appropriate testing method for compa	aring distributions in two-way tables of categorical data.				
Suggested Days: 6		erify the conditions for making statistical infere nce or homogeneity.	nces when testing a chi-square distribution for				
	VAR-8.L Calculate the appropriate statistic for a chi-square test for homogeneity or independence						
	VAR-8.M Determine the p-value for a chi-square significance test for independence or homogeneity.						
	DAT-3.K Interpret the p-value for the chi-square test for homogeneity or independence.						
	DAT-3.L Justify a claim about the population based on the results of a chi-square test for homogeneity or						
	independe	nce.					
		Unit 9: Inference for Quantitative Data: Slop					
		Estimated Date Range: April 7 – April 23 (13 total school of					

Instructional & Re-engagement Days in Unit: 13 days



		Accord	sments						
		1.0000							
STATE/NATIONAL ASSESSMENT(S) N/A		• •			N FORMATIVE ASSESSMENTS (CFAs) ministered within designated concept) N/A				
Concepts within the Unit		Learning Objectives							
Concept #1: Confidence Intervals for the	VAR-1.K	Identify questions suggest	ed by variation in scatter	plots.					
Slope of a Regression Model (Topics 9.1,	UNC-4.A	.C Identify an appropriate o	onfidence interval proce	dure for a slope	of a regression model.				
9.2 and 9.3)	UNC-4.A	D Verify the conditions to	calculate confidence inte	rvals for the slop	e of a regression model.				
	UNC-4.A	E Determine the given ma	gin of error for the slope	of a regression	model.				
Suggested days: 7	UNC-4.A	F Calculate an appropriate	confidence interval for the	he slope of a reg	ression model.				
		G Interpret a confidence in	· ·	•					
		H Justify a claim based on		•	-				
		UNC-4.AI Identify the effects of sample size on the width of a confidence interval for the slope of a regression							
	model.								
Concept #2: Test for the Slope of a		Identify the appropriate se	_	•	-				
Regression Model (Topics 9.4, 9.5, and		Identify appropriate null a							
9.6)		Verify the conditions for th	•						
	VAR-7.M Calculate an appropriate test statistic for the slope of a regression model								
Suggested Days: 3	DAT-3.M Interpret the p-value of a significance test for the slope of a regression model.								
	DAT-3.N Justify a claim about the population based on the results of a significance test for the slope of a regression model.								
		Unit 10: AP Review a	nd Statistics Activities						
		Estimated Date Range: April 2		/s)					
		Instructional & Re-engag	ement Days in Unit: 19 days						
		Asses	sments						
STATE/NATIONAL ASSESSMENT(S)	DISTR	ICT ASSESSMENT(S)	COMMON FORM	MATIVE	Semester Exams				
AP Exams (5/4 – 5/15) 1 day		N/A	ASSESSMENTS		(4 days)				
			(administered within desig	•	Testing Window (5/22 – 5/28)				
	N/A								
Concepts within the Unit	thin the Unit Learning Objectives								
Concept #1: Exploring Data	VAR-1 A	VAR-1 A – D							
	VAR-1 A – C								





Suggested Days: Determined on	UNC-1 A – C, F – S
individual student need	DAT-1 A – I
Concept #2: Sampling and	VAR -1 E
Experimentation	VAR-3 A – E
	DAT-2 A – E
Suggested Days: Determined on individual student need	
Concept #3: Probability and Distribution	VAR-1 F, G
Models	VAR-4 A – E
	VAR-5 A – F
Suggested Days: Determined on	VAR-6 A, B
individual student need	UNC-2 A
	UNC-3 A – T
Concept #4: Statistical Inference	VAR-1 H – K
	VAR-6 D – K
Suggested Days: Determined on	VAR-7 A – M
individual student need	VAR-8 A – M
	UNC-4 A – Z, AA – AI
	UNC-5 A – D
	DAT-3 C – N
1	