

Statistics CP Curriculum Map

Statistics CP Curriculum Map	Resource & Topics	SCCCR Standards
1st nine weeks	Unit 1: Data Collection and Statistical Studies <i>Chapter/Section Title of Section</i> 1.1 What is Statistics? 1.2 Random Samples 1.3 Intro to Experimental Design	PS.SPCR.1; SP.SPMJ.6
	Unit 2: Organizing Data Using Graphs 2.1 Bar Graphs, Circle Graphs, Time Plots 2.2 Frequency Distributions and Histograms 2.3 Stem and Leaf Displays	PS.SPID.1; 2; 3 6.DS.4; 7.DSP.3;
	Unit 3: Averages, Variation, and Position 3.1 Measures of Central Tendency 3.2 Measures of Variation 3.3 Percentiles and Box and Whisker Plots	6.DS.2; 3; 7.DSP.3; 4
	Unit 4: Regression and Correlation 4.1 Intro to Paired Data and Scatter Diagrams 4.2 Linear Regression 4.3 Linear Correlation Coefficient	PS.SPID.6; 7; 8; 9; 10;
	Unit 5: Probability Theory 5.1 What is Probability? 5.2 Probability Rules- Compound Events 5.3 Trees and Counting Techniques	PS.SPCR.2; 3; 4; 5; 6; 7; 8 PS.SPMJ.2 PS.SPID.5
	Unit 6: Probability Distribution 6.1 Random Variables and Probability Distributions	PS.SPMD.1; 2; 3; 4; 5; 6;

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	6.2	Binomial Probabilities	
	6.3	Additional Properties of the Binomial Distribution	
2nd nine weeks	Unit 7: Normal Distribution		PS.SPID.4; PS.SPMD.1; 3; 6
	7.1	Graphs of Normal Probability Distributions	
	7.2	Standard Units and Areas Under the Standard Normal Distribution	
	7.3	Areas Under the Normal Curve	
	7.4	Normal Approximation to the Binomial Distribution	
	Unit 8: Statistical Research Project		PS.SPMJ.3; 5; 6;
	Unit 9 Introduction to Sampling Distributions		PS.SPMJ.1;
	8.1	Sampling Distributions	
	8.2	The Central Limit Theorem	
	Unit 10 Estimation		PS.SPMJ.4;
	9.1	Estimating "mu" with large samples	
	9.2	Estimating "mu" with small samples	
	9.3	Estimation "p" in the Binomial Distribution	
	9.4	Choosing the Sample Size	
	Unit 11 Hypothesis Testing		PS.SPMJ.1; PS.SPMD.3
	10.1	Introduction to Hypothesis Testing	
	10.2	Test Involving the Mean "mu" (Large Samples)	
	10.3	The P Value in Hypothesis Testing	
	10.4	Test Involving the Mean "mu" (Small Samples)	
	10.5	Tests Involving a Proportion	