Since 1	Marietta City Schools 2024–2025 District Unit Planner				
AP Statistics					
Unit title	Unit 2: Exploring Two-Variable Data	Unit duration (hours)	8 - 12 hours		
Mastering Content and Skills through INQUIRY (Establishing the purpose of the Unit): What will students learn?					

GA DoE Standards				
Standards				
2.1 Introduction 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				
2.7 Residuals				
2.8 Least Squares Regression				
2.9 Analyzing Departures from Linearity				
Concepts/Skills to support mastery of standards				
Two-way tables				
Association				
Correlation				
 Linear Regression Models Residuals 				
 Least Squares Regression 				
Analyzing Departures from Linearity				
Vocabulary				

Published: 8, 2024 Resources, materials, assessments not linked to SGO or unit planner will be reviewed at the local school level.

Categorical Variable	Quantitative Variable	Association	Scatterplot	Explanatory Variable			
Response Variable	Correlation	Regression	Residual	Least-Squares Regression			
Essential Questions							
How do you describe a relationship between 2 quantitative variables? Can you guess the correlation? How can you use a model to make predictions? How do outliers affect the LSRL?							
Assessment Tasks							
List of common formative and summative assessments.							
Formative Assessment(s):							
Common Formative Assessment – Ticket out the Door, Homework, Group Presentations, Quiz							
Summative Assessment(s):							
Common Summative Assessment – Unit 2 Test (50% Multiple Choice/50% Free Response)							

Learning Experiences				
Objective or Content	Learning Experiences	Personalized Learning and Differentiation		

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2.C Calculate summary statistics, relative positions of points within a distribution, correlation, and predicted response.	How Many Rubber Bands does Barbie Need? (Math Medic) Students will collect data about the distance Barbie travels for a bungee jump based on the number of rubber bands attached. Students will use a scatter plot to represent the relationship and describe the relationship. We will later use this model to make predictions.	Graphic organizers are provided for each lesson and additional practice as needed. Some students will move through the task independently. Others will need prompts and support for understanding				
Content Resources						
All notes are provided on schoology. The Practice of Statistics 5 th edition AP College Board						