

AP Statistics Syllabus

FIRST MARKING PERIOD

Chapter 1: Exploring One-Variable Data

Section	Title	2023 NJSL for Mathematics
1.1	Analyzing Categorical Data	S-ID.A.1, S-ID.A.2, S-ID.A.3, S-ID.B.5
1.2	Displaying Quantitative Data with Graphs	S-ID.A.1, S-ID.A.2, S-ID.A.3, S-ID.B.5
1.3	Describing Quantitative Data with Numbers	S-ID.A.1, S-ID.A.2, S-ID.A.3, S-ID.B.5

Chapter 2: Modeling Distributions of Quantitative Data

Section	Title	2023 NJSL for Mathematics
2.1	Describing Location in a Distribution	S-ID.A.3, S-ID.A.4
2.2	Density Curves and Normal Distribution	S-ID.A.3, S-ID.A.4

Chapter 3: Exploring Two-Variable Data

Section	Title	2023 NJSL for Mathematics
3.1	Scatterplots and Correlation	S-ID.B.6
3.2	Least-Squares Regression	S-ID.B.6
3.3	Transforming to Achieve Linearity	S-ID.B.6

SECOND MARKING PERIOD

Chapter 4: Collecting Data

Section	Title	2023 NJSL for Mathematics
4.1	Sampling and Surveys	S-IC.A.1, S-IC.B.3, S-IC.B.5
4.2	Experiments	S-IC.A.1, S-IC.B.3, S-IC.B.5
4.3	Using Studies Wisely	S-IC.A.1, S-IC.B.3, S-IC.B.5

Chapter 5: Probability

Section	Title	2023 NJSL for Mathematics
5.1	Randomness, Probability, and Simulation	S-CP.A.1, S-CP.A.2, S-CP.A.3, S-CP.A.4, S-CP.A.5, S-CP.B.6, S-CP.B.7, S-CP.B.8, S-CP.B.9
5.2	Probability Rules	S-CP.A.1, S-CP.A.2, S-CP.A.3, S-CP.A.4, S-CP.A.5, S-CP.B.6, S-CP.B.7, S-CP.B.8, S-CP.B.9
5.3	Conditional Probability and Independence	S-CP.A.1, S-CP.A.2, S-CP.A.3, S-CP.A.4, S-CP.A.5, S-CP.B.6, S-CP.B.7, S-CP.B.8, S-CP.B.9

Chapter 6: Random Variables and Probability Distributions

Section	Title	2023 NJSL for Mathematics
6.1	Discrete and Continuous Random Variables	S-MD.A.2, S-MD.A.3, S-MD.A.4, S-MD.B.5
6.2	Transforming and Combining Random Variables	S-MD.A.2, S-MD.A.3, S-MD.A.4, S-MD.B.5
6.3	Binomial and Geometric Random Variables	S-MD.A.2, S-MD.A.3, S-MD.A.4, S-MD.B.5

Chapter 7: Sampling Distributions

Section	Title	2023 NJSL for Mathematics
7.1	What is a Sampling Distribution?	S-MD.A.1, S-MD.A.2, S-MD.A.3, S-MD.A.4
7.2	Sample Proportions	S-MD.A.1, S-MD.A.2, S-MD.A.3, S-MD.A.4
7.3	Sample Means	S-MD.A.1, S-MD.A.2, S-MD.A.3, S-MD.A.4

THIRD MARKING PERIOD

Chapter 8: Estimating Proportions with Confidence

Section	Title	2023 NJSL for Mathematics
8.1	Confidence Intervals: The Basics	S-IC.A.1, S-IC.B.4, S-IC.B.5
8.2	Estimating a Population Proportion	S-IC.A.1, S-IC.B.4, S-IC.B.5
8.3	Estimating a Difference in Proportions	S-IC.A.1, S-IC.B.4, S-IC.B.5

Chapter 9: Testing Claims About Proportions

Section	Title	2023 NJSL for Mathematics
9.1	Significance Tests: The Basics	S-MD.B.5a, S-MD.B.5b, S-MD.B.6, S-MD.B.7
9.2	Tests About a Population Proportion	S-MD.B.5a, S-MD.B.5b, S-MD.B.6, S-MD.B.7
9.3	Tests About a Difference in Proportions	S-MD.B.5a, S-MD.B.5b, S-MD.B.6, S-MD.B.7

Chapter 10: Estimating Means with Confidence

Section	Title	2023 NJSL for Mathematics
10.1	Estimating a Population Mean	S-IC.A.1, S-IC.B.4, S-IC.B.5
10.2	Estimating a Difference in Means	S-IC.A.1, S-IC.B.4, S-IC.B.5

Chapter 11: Testing Claims About Means

Section	Title	2023 NJSL for Mathematics
11.1	Tests About a Population Mean	S-MD.B.5a, S-MD.B.5b, S-MD.B.6, S-MD.B.7
11.2	Tests About a Difference in Means	S-MD.B.5a, S-MD.B.5b, S-MD.B.6, S-MD.B.7

FOURTH MARKING PERIOD**Chapter 12: Inference for Distributions and Relationships**

Section	Title	2023 NJSL for Mathematics
12.1	Chi-Square Tests for Goodness of Fit	S-ID.B.5, S-ID.B.6a, S-ID.B.6b, S-ID.B.6c, S-ID.C.7, S-ID.C.8, S-ID.C.9, S-IC.A.1
12.2	Inference for Two-Way Tables	S-ID.B.5, S-ID.B.6a, S-ID.B.6b, S-ID.B.6c, S-ID.C.7, S-ID.C.8, S-ID.C.9, S-IC.A.1
12.3	Inference for Slope	S-ID.B.5, S-ID.B.6a, S-ID.B.6b, S-ID.B.6c, S-ID.C.7, S-ID.C.8, S-ID.C.9, S-IC.A.1

Review for AP Exam
Project(s) [As time allows]

Resources

The Practice of Statistics, Sixth edition – By Starnes & Tabor

AP Central material

Sapling Textbook Online Resources

Assessment Information

Category Code	Category	Percentage
MAJ	Major	60%
MIN	Minor	25%
HW	Homework, Participation & Practice	15%