AP Statistics · 2025-2026 Quarter 1 Breakdown · North Community High School ·

Class: AP STATS   Teacher: Tyler Salone

TIMELINE	STANDARDS TAUGHT/LEARNED (SEE PAGE 2)	READING FRIDAY-SUNDAY (DUE MON)	ASSESSMENTS /MASTERY
WEEK ONE SEPT 1-5	M-NO SCHOOL- Labor Day ✅T- Orientation - Distribute Materials, "Why to choose statistics over Calculus?" / Getting to know you. ✅W- 0.0 Syllabus ✅Th- 0.1 Smelling Parkinsons (Activity 1) **Done as whole group** ✅F-Navigating the book, & AP Classroom, Begin Reading Weekend- Reading	Read 1.1: Analyzing Categorical Data by 9/8 (Please read from the Introduction on p.2- the Summary on p.19)	Become Acquainted
Chapter 1	**Data Analysis**	**Chapter 1**	
WEEK TWO SEPT 8-12	✅M- 1.1 Analyzing Categorical Data (Notes)/ ✅T- 1.1 Analyzing Categorical Data Activity (How Are Our Favorite Classes Related) (Activity 2) **Done in groups** ✅W- 1.1 Analyzing Categorical Data Activity (Two Way Frequency Tables) (Activity 3) / Explain Free Response Process ✅Th- 1.1 Formative Practice 1 (FP1) (3, 7, **9, 10**, 13, 15, 17, 19, 21, 23, 27, 29, 33, 35, **40–43**) ✅F- Finish Formative Practice 1 / Turn in Homework Notebook/ Start Weekend: Reading	Read 1.2: Displaying Quantitative Data with Graphs by 9/15 (Please read from p.25- the Summary on p40)	Practice 1 **(groups)**
WEEK THREE SEPT 15-19	✅M- 1.2 Displaying Quantitative Data with Graphs (Notes) ✅T- 1.2 Displaying Quantitative Data with Graphs (How Many Shoes Do You Own?) (Activity 4) **Done in groups** ✅W- Go over FP1 (1.1) / 1.2 Free Response Wednesday (Free Response Answer/Present) ✅Th- Go over FR1 (Free Response Evaluation)/ 1.2 Formative Practice 2 (FP2) (45, 49, 51, 55, 59, 63, 65, 69, 77, **80–85**) ✅F- Finish Formative Practice 2/ Turn in Homework Notebook/ Start Weekend- Reading	Read 1.3: Describing Quantitative Data with Numbers by 9/22 (Please read from p.48- the Summary on p68)	Practice 2 **(groups)** Free Response 1
WEEK FOUR SEPT 22-26	✅M- 1.3 Describing Quantitative Data with Numbers (Notes) / 1.3 Formative Practice 3 (FP3) (87, 89, 91, 95, 97, 101, 103, 105, 121, 109, 111, 113, 115,**123–126) Assign as Homework, due on 10/1.** T- NO SCHOOL-Rosh Hashanah ✅W- 1.3 Describing Quantitative Data with Numbers (Where Do I Stand? / Which City Has The Better Weather?) (Activities 5 & 6) ✅Th- Ch. 1 Review Exercises (Review) / Finish Practice 3 F- Quiz 1 (Ch.1 Quiz)/ Finish Formative Practice 3/ Turn in ✅Homework Notebook/ Start Weekend: Reading Weekend- Reading	Read 2.1: Describing Location in a Distribution by 9/29	Practice 3 **(assigned as homework)** Quiz 1
Chapter 2	**Modeling Distributions of Quantitative Data**	**Chapter 2**	
WEEK FIVE SEPT 29- OCT 3	M- Unit 1 Test Corrections Introduced/ 2.1 Describing Location in a Distribution (Notes) / T- 2.1 Describing Location in a Distribution (Activity 7) W- Go over FP3 (1.3) / 2.1 Free Response Wednesday (Free Response Answer) Th- NO SCHOOL-Yom Kippur F- Go over FR2 (Free Response Evaluation)/ Finish Formative Practice 4/ Turn in Homework Notebook/ Start Weekend Reading. Weekend- Reading	Read 2.2 Density Curves and Normal Distributions by 10/6	Practice 4 **(assigned as homework)** Free Response 2
MIDQUARTER			

WEEK SIX **OCT 6-10**	M-2.1 Density Curves and Normal Distributions (Notes) T- 2.1 Describing Location in a Distribution (Activity 7) W- Go over FP3 (1.3) / 2.1 Free Response Wednesday (Free Response Answer) Th-2.1 Formative Practice 4 (FP4) (1, 7, 9, 11, 13, 15, 19, 21, 25, 29, 31, **33–38**) **Assign as Homework, due on 10/8.** F- Go over FR2 (Free Response Evaluation)/ Finish Formative Practice 4/ Turn in Homework Notebook/ Start Weekend Reading. Weekend- Reading	Catch Up on Missing Formative Practice Sets FP1-FP5 Due by 10/13 (Optional) Read Ahead)	Practice 5 **(groups)**
WEEK SIX **OCT 6-10**	M-2.2 Density Curves and Normal Distributions (Notes) T-2.2 Density Curves and Normal Distributions (Activity 8 & 9) W- Go over FP4 (2.1) Th- 2.2 Formative Practice 5 (FP5) (41, 45, 47, 49, 51, 53, 55, 57, 59, 61 63, 73, 75, 77, 79, 81, **85–90**) **Done in groups** F- Ch. 2 Review Exercises (Review) / Finish Formative Practice 5/ Turn in Homework Notebook/ Weekend- Catch Up on Practice Problems. &/or read ahead	Catch Up on Missing Formative Practice Sets FP1-FP5 Due by 10/13 (Optional) Read Ahead)	Practice 5 **(groups)**
Chapter 3	**Exploring Two-Variable Quantitative Data**	**Chapter 3**	
WEEK SEVEN **OCT 13-17**	M- Quiz 2 (Ch.2 Quiz) T-Quiz 2 (Ch.2 Test Corrections) W- NO SCHOOL MEA (Conferences) Th- NO SCHOOL MEA (Conferences) F- NO SCHOOL MEA (Conferences) Weekend- Reading	Read 3.1 Scatterplots & Correlation by 10/20	Quiz 2 Quiz Recovery
WEEK EIGHT **OCT 20-24**	M- 3.1 Scatterplots and Correlation (Notes) T- 3.1 Scatterplots and Correlation (Activity) W- Go over FP5 (2.2)/ 3.1 Free Response Wednesday (Free Response Answer) Th- Go over FR3 (Free Response Evaluation)/ 3.1 Formative Practice 6 (FP6) (1, 3, 5, 9, 11, 13, 15, 17, 19, 23, **29–34**) **Done in groups** F- Finish Formative Practice 7/ Turn in Homework Notebook/ Start Weekend Reading. Weekend: Reading	Read 3.2 Least Squares Regression by 10/27	Practice 6 **(groups)** Free Response 3
WEEK NINE **OCT 27- OCT 31**	M- 3.2 Least-Squares Regression (Notes T- 3.2 Least-Squares Regression (Activity) W- Go over FP6 (3.1) / 3.2 Free Response Wednesday (Free Response Answer) Th- Go over FR4 (Free Response Evaluation)/ 3.2 Formative Practice 7 (FP7) (37, 39, 41, 43, 45, 51, 47, 49, 53, 55, 57, 59, 63, 65, 67, **71–78**) **Done in groups** F- Catch Up on Missing Practice Sets 6-8/ Turn in Homework Notebook/ Start Weekend Reading. Weekend: Reading	Read 3.3 Transforming to Achieve Linearity by 11/3	Practice 7 **(groups)** Free Response 4
WEEK TEN **NOV 3-4**	M- 3.3 Transforming to Achieve Linearity (Notes) T- NO SCHOOL Record Keeping Day W-3.3 Transforming to Achieve Linearity (Activity) Th- 3.3 Formative Practice 8 (FP8) (81, 83, 85, 87, 89, 91, 93, **95, 96**) **Done in groups** F- Go over FP7 (3.2)/ Turn in Homework Notebook/ Take Week Off From Reading	Week Off Of Reading, or Read Ahead	Practice 8 **(groups)** Final Grades
END OF QUARTER			

WEEK 1 Nov 10- Nov 14	M- Ch. 3 Review Exercises (Review) T- Quiz 3 (Ch.3 Quiz) W- Go over FP6 (3.3) Th- Quiz 3 (Ch.3 Test Corrections) F- Finish Formative Practice 8/ Turn in Homework Notebook/ Start Weekend Reading. Weekend: Reading	Read 4.1 Sampling and Surveys by 11/18	Quiz 3

Q1 39 days

Resources for the above standards can be found on the College Board Website.
Text Referenced is The Practice of Statistics 6e by Darin Starnes.

Quarter 1 Statistics Standards

<u>1.1</u>
- Identify the individuals and variables in a set of data.
- Classify variables as categorical or quantitative.
- Make and interpret bar graphs for categorical data.
- Identify what makes some graphs of categorical data misleading
- .Calculate marginal and joint relative frequencies from a two-way table.
- Calculate conditional relative frequencies from a two-way table.
- Use bar graphs to compare distributions of categorical data.
- Describe the nature of the association between two categorical variables.

<u>1.2</u>
- Make and interpret dotplots, stemplots, and histograms of quantitative data.
- Identify the shape of a distribution from a graph.
- Describe the overall pattern (shape, center, and variability) of a distribution and identify any major departures from the pattern (outliers).
- Compare distributions of quantitative data using dotplots, stemplots, and histograms.

<u>1.3</u>
- Calculate measures of center (mean, median) for a distribution of quantitative data.
- Calculate and interpret measures of variability (range, standard deviation, IQR) for a distribution of quantitative data.
- Explain how outliers and skewness affect measures of center and variability.
- Identify outliers using the $1.5{\times}IQR$ rule.
- Make and interpret boxplots of quantitative data.
- Use boxplots and numerical summaries to compare distributions of quantitative data.

<u>2.1</u>
- Find and interpret the percentile of an individual value within a distribution of data.
- Estimate percentiles and individual values using a cumulative relative frequency graph.
- Find and interpret the standardized score (z-score) of an individual value within a distribution of data.
- Describe the effect of adding, subtracting, multiplying by, or dividing by a constant on the shape, center, and variability of a distribution of data.

<u>2.2</u>
- Use a density curve to model distributions of quantitative data.
- Identify the relative locations of the mean and median of a distribution from a density curve.
- Use the empirical rule to estimate (i) the proportion of values in a specified interval, or (ii) the value that corresponds to a given percentile in a Normal distribution.

- Find the proportion of values in a specified interval in a Normal distribution using Table A or technology.Find the value that corresponds to a given percentile in a Normal distribution using Table A or technology.
- Determine whether a distribution of data is approximately Normal from graphical and numerical evidence.

3.1

- Distinguish between explanatory and response variables for quantitative data.
- Make a scatterplot to display the relationship between two quantitative variables.
- Describe the direction, form, and strength of a relationship displayed in a scatterplot and identify unusual features.
- Interpret the correlation.
- Understand the basic properties of correlation, including how the correlation is influenced by unusual points.
- Distinguish correlation from causation.

3.2

- Make predictions using regression lines, keeping in mind the dangers of extrapolation.
- Calculate and interpret a residual.
- Interpret the slope and y intercept of a least–squares regression line.
- Determine the equation of a least–squares regression line using technology or computer output.
- Construct and interpret residual plots to assess whether a regression model is appropriate.
- Interpret the standard deviation of the residuals and r^2 and use these values to assess how well a least–squares regression line models the relationship between two variables.
- Describe how the least–squares regression line, standard deviation of the residuals, and r^2 are influenced by unusual points.
- Find the slope and y intercept of the least–squares regression line from the means and standard deviations of x and y and their correlation.

3.3

- Use transformations involving powers, roots, or logarithms to create a linear model that describes the relationship between two quantitative variables, and use the model to make predictions.
- Determine which of several models does a better job of describing the relationship between two quantitative variables.