## TPS 5e Pacing Guide (Block Schedule: 73 days)

| **Class Number** | **Section in TPS 5e** | **Topics/Activities** |
| --- | --- | --- |
|  | **Chapter 1** | **Exploring Data** |
| **1** | 1.0 Introduction  1.1 Analyzing Categorical Data | Individuals, Variables, Bar Graphs, Proportions  1.0 Data Collection Sheet  1.1 Analyzing Categorical Data |
| **2** | 1.1 Analyzing Categorical Data | Two-way tables  1.1 Analyzing Categorical Data |
| **3** | 1.2 Displaying Quantitative Data with Graphs | Dotplots, Stemplots, Histograms  1.2 Displaying Quantitative Data with Graphs |
| **4** | 1.3 Describing Quantitative Data with Numbers | Mean/Median, 5# Summary, IQR, SD, Outliers, Boxplots 1.3 Describing Quantitative Data with Numbers |
| **5** | Ch.1 Review | FRAPPY! |
| **6** | Ch.1 Test | Ch.1 Test |
|  | **Chapter 2** | **Modeling Distributions of Data** |
| **7** | 2.1 Describing Location in a Distribution | Percentiles, Standardized Scores, Transformations |
| **8** | 2.2 Density Curves | Density Curves, 68–95–99.7 Rule, Standard Normal Dist., Normal Distribution Calculations |
| **9** | 2.2 The Normal Distributions | Normal Distribution Calculations, Assessing Normality |
| **10** | 2.2 The Normal Distributions | Normal Distribution Calculations, Assessing Normality |
| **11** | Ch.2 Review | FRAPPY! |
| **12** | Ch.2 Test | Ch.2 Test |
|  | **Chapter 3** | **Describing Relationships** |
| **13** | 3.1 Scatterplots and Correlation | Scatterplots and Correlation |
| **14** | 3.2 Least-Squares Regression | Least-Squares Regression Model, Interpreting Coefficients, Predictions, Residuals |
| **15** | 3.2 Least-Squares Regression | Calculating the Regression Equation, Assessing Fit (Residual Plots, *s*, *r*2) |
| **16** | 3.2 Least-Squares Regression | Computer Output, Regression Wisdom, Outliers |
| **17** | Ch.3 Review | FRAPPY! |
| **18** | Ch.3 Test | Ch.3 Test |
|  | **Chapter 4** | Designing Studies |
| **19** | 4.1 Sampling and Surveys | Simple Random Sampling, Stratified Random Sampling, Cluster Sampling |
| **20** | 4.1 Sampling and Surveys | AP® Free Response Questions |
| **21** | 4.2 Experiments | Experiments |
| **22** | 4.2 Experiments | Activity: Get your heart beating |
| **23** | 4.3 Using Studies Wisely | Response Bias Project Proposal |
| **24** | Ch.4 Review | FRAPPY! |
| **25** | Ch.4 Test | Ch.4 Test |
|  | **Chapter 5** | **Probability: What are the Chances?** |
| **26** | 5.1 Randomness, Probability, and Simulation | Probability, Simulation  Activity: 1-in-6 Wins (and Fathom) |
| **27** | 5.2 Probability Rules | Probability Models, Basic Rules, Two-Way Tables & Venn Diagrams |
| **28** | 5.3 Conditional Probability and Independence | Conditional Probability, Tree Diagrams, Independence |
| **29** | 5.3 Conditional Probability and Independence |  |
| **30** | Ch.5 Review | FRAPPY! |
| **31** | Ch.5 Test | Ch.5 Test |
|  | **Chapter 6** | **Random Variables** |
| **32** | 6.1 Discrete and Continuous Random Variables | Discrete RVs, Means/Variances of Discrete RVs, Continuous RVs |
| **33** | 6.2 Transforming Random Variables | Linear Transformations, Sums and Differences of RVs |
| **34** | 6.2 Combining Random Variables | Sums and Differences of RVs, Combining Normal RVs |
| **35** | 6.3 Binomial Random Variables | Binomial RVs |
| **36** | 6.3 Binomial & Geometric Random Variables | Normal Approximation to Binomial, Geometric RVs |
| **37** | Ch.6 Review | FRAPPY! |
| **38** | Ch.6 Test | Ch.6 Test |
|  | **Chapter 7** | **Sampling Distributions** |
| **39** | 7.1 What is a Sampling Distribution? | Activity: German Tanks |
| **40** | 7.1 What is a Sampling Distribution? | Bias, Variability, Shape |
| **41** | 7.2 Sample Proportions | Activity: Sampling Reese’s Pieces |
| **42** | 7.3 Sample Means | Activity: Sampling Pennies |
| **43** | Ch. 7 Review | FRAPPY! |
| **44** | Ch.7 Test | Ch.7 Test |
|  | **Chapter 8** | **Estimating with Confidence** |
| **45** | 8.1/8.2 Estimating a Population Proportion | Activity: Flipping Hershey Kisses  C.I. for p, Margin of Error |
| **46** | 8.1/8.2 Estimating a Population Proportion | Conditions, Determining Sample Size, Interpreting the Confidence Level |
| **47** | 8.3 Estimating a Population Mean | Activity: Estimating the Mean Mass of a Fun Size Snickers Bar |
| **48** | 8.3 Estimating a Population Mean | Limit of t is z, robustness of t procedures, Paired Data |
| **49** | Ch. 8 Review | FRAPPY |
| **50** | Ch.8 Test | Ch.8 Test |
|  | **Chapter 9** | **Testing a Claim** |
| **51** | 9.1/9.2 Tests about a Population Proportion | Activity: Testing a Reese’s Pieces claim |
| **52** | 9.2 Tests about a Population Proportion |  |
| **53** | 9.1/9.2 Tests about a Population Proportion | Types of Errors & Power |
| **54** | 9.3 Tests about a Population Mean | Activity: Testing a Snicker’s claim |
| **55** | Ch. 9 Review | FRAPPY |
| **56** | Ch.9 Test | Ch.9 Test |
|  | **Chapter 10** | **Comparing Two Populations or Groups** |
| **57** | 10.1 Comparing Two Proportions | Activity: M&Ms plain vs. peanut |
| **58** | 10.1 Comparing Two Proportions | Inference for Experiments |
| **59** | 10.2 Comparing Two Means |  |
| **60** | 10.2 Comparing Two Means |  |
| **61** | Ch.10 Review | FRAPPY! |
| **62** | Ch.10 Test | Ch.10 Test |
|  | **Chapter 11** | **Inference for Distributions of Categorical Data** |
| **63** | 11.1 Chi-Square Goodness-of-Fit Tests | Chi-Square GOF Test |
| **64** | 11.2 Inference for Two-Way Tables | Test of Homogeneity |
| **65** | 11.2 Inference for Two-Way Tables | Test of Independence |
| **66** | Ch.11 Review | FRAPPY! |
| **67** | Ch.11 Test | Ch.11 Test |
|  | **Chapter 12** | **More about Regression** |
| **68** | 12.1 Inference for Linear Regression | Inference for Linear Regression |
| **69** | 12.1 Inference for Linear Regression |  |
| **70** | 12.2 Transforming to Achieve Linearity | Known Models – Powers/roots |
| **71** | 12.2 Transforming to Achieve Linearity | Unknown Models – Logarithms |
| **72** | Ch.12 Review | FRAPPY! |
| **73** | Ch.12 Test | Ch.12 Test |