

## 2023-2024 AP Statistics Assignments

(see web site for reading guides, glossaries of important terms, notes, HW answers, and other goodies)

Guided Notes (1) required HW for each section and collected prior to starting the section. (2) Notes can be typed. Templates are on my web site.  
 (3) Notes MUST be ontime, complete and neat to receive ANY credit ! Each section is 3 HW grades.

| Chapter                                                                                                                 | Day | Topics                                                                                                                                                                                                                                                              | Objectives: Students will be able to...                                                                                                                                                                                                                                                                                                                                                                                                                                      | Homework                                                                                 | Reading                   | 4B     |
|-------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------|--------|
| 8                                                                                                                       | 0   | 8.1 Understanding Confidence Intervals and Confidence Levels: Constructing, Interpreting, and Conditions<br><i>Garfield Video (10min)</i>                                                                                                                           | <ul style="list-style-type: none"> <li>Interpret a confidence level in context.</li> <li>Interpret a confidence interval in context.</li> <li>Understand that a CI gives a range of plausible values for the parameter.</li> <li>Understand the 3 inference conditions for CI's (1)<u>R</u>andom; (2)<u>N</u>ormal; (3)<u>I</u>ndependence</li> <li>Explain how issues like nonresponse, undercoverage, &amp; response bias can affect the interpretation of a CI</li> </ul> | Complete 8.1 Guided Notes                                                                |                           | 5-Feb  |
| 7                                                                                                                       | 8   | <b>Chapter 7 Test (70min time limit)</b>                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                           | 9-Feb  |
| 8                                                                                                                       | 0.5 | <b>8.1 Class Activity:</b> (1) Garfield Video (10min).<br>(2) Take notes (a minimum of 1 page front and back)<br>(3) Answer question in GC.                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1) Complete GC Garfield Video assignment<br><b>2) Do SM video 8.1A</b>                   |                           | 9-Feb  |
| 8                                                                                                                       | 1   | <a href="http://www.brunswick.k12.me.us/pgroves/files/2024/02/AP-Stats-Chapter-8-Assignments-2024.pdf">http://www.brunswick.k12.me.us/pgroves/files/2024/02/AP-Stats-Chapter-8-Assignments-2024.pdf</a><br><i>Activity 1: 8.1 Mystery Mean - CI Basics (DESMOS)</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Do SM video 8.1B</b><br><br>NG: 1, 5, 15, (mc)21-24                                   | Complete 8.2 Guided Notes | 13-Feb |
| 8                                                                                                                       | 2   | 8.2 Conditions for Estimating $p$ , Constructing a Confidence Interval for $p$<br><i>Activity 1: Wrap up 8.1 CI basics</i><br><i>Activity 2 - 8.2 handout (sections I-III) Understanding Confidence Intervals for <math>p</math></i>                                | <ul style="list-style-type: none"> <li>Determine critical values for calculating a confidence interval using a table or your calculator.</li> <li>Construct and interpret a CI for a population <math>p</math>.</li> <li>Understand the 3 inference conditions—R, N, &amp; I</li> </ul>                                                                                                                                                                                      | <b>SM video 8.2A &amp; SM video 8.2B</b><br><br>NG: 27-31, 33, 36, 38, 41, 44 (mc) 49-52 |                           | 15-Feb |
|  <b>February Vacation (Feb. 19-23)</b> |     |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                           |        |
| SKIP ACTIVITY SAVE TIME - 8.2 Activity - Magic Bean Contest                                                             |     |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                           |        |

over

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| FRAPPY's (2013q1, 2017q2, 2018Bq2 PLUS 2008Bq3, 2010q3) - 2 Frappy's will be on your Quiz - Read the Chief Reader Report |     |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                       |                           |        |
|--------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|
| Chapter                                                                                                                  | Day | Topics                                                                                                                                                                                                      | Objectives: Students will be able to...                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Homework                                                                                                                              | Reading                   | 4B     |
| 8                                                                                                                        | 3   | 8.2 Putting It All Together: Construct a CI for p; Choosing the Sample Size<br><br><b>Activity 1 - Finish 8.2 handout "CIs for p"</b><br><br><b>Activity 2 - 8.2 Partner Quiz</b>                           | <ul style="list-style-type: none"><li>- Do ALL steps to constructing a CI for a population proportion: define parameter; check conditions; perform calculations; interpret results in context."</li><li>• Determine the sample size required to obtain a level <math>C</math> confidence interval for a population proportion with a specified margin of error.</li><li>• Understand how the ME of a CI changes with the sample size and the level of confidence <math>C</math>.</li></ul> |                                                                                                                                       | Complete 8.3 Guided Notes | 26-Feb |
| 8                                                                                                                        | 4   | 8.3 Introduction to Mean CI and find sample size<br>--> <i>Dropped topic 1-Sample z-Interval for <math>\mu</math></i><br><br><b>• 8.3a Intro to CIs for <math>\mu</math> and find sample size for means</b> | <ul style="list-style-type: none"><li>- <del>Dropped topic 1-Sample z-Interval for <math>\mu</math> (Construct and interpret a confidence interval for a <math>\mu</math> when <math>\sigma</math> is known)</del></li><li>• Determine the sample size required to obtain a level <math>C</math> CI for a population mean with a specified ME</li></ul>                                                                                                                                    | <b>SM video 8.3A</b><br><br><b>Work on Frappy's</b>                                                                                   |                           | 28-Feb |
|                                                                                                                          |     | <b>•DELETED Activity: 8.3 Letters per Word</b>                                                                                                                                                              | <ul style="list-style-type: none"><li>- Dropped topic- construct and interpret a CI for a <math>\mu</math> when <math>\sigma</math> is known</li></ul>                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                       |                           |        |
| 8                                                                                                                        | 5   | 8.3 Constructing a Confidence Interval for $\mu$ when $\sigma$ is Unknown: The t Distributions,<br><br><b>•Classwork: 8.3b Activity - t-distribution &amp; CI for <math>\mu</math></b>                      | <ul style="list-style-type: none"><li>• Carry out the steps in constructing a CI for a <math>\mu</math> when <math>\sigma</math> is NOT known</li><li>• Understand the 3 inference conditions—R, N, &amp; I</li></ul>                                                                                                                                                                                                                                                                      | <b>SM video 8.3B</b><br><br>NG: 56, 57, 60, 63, 67, 73, (mc) 75–78                                                                    |                           | 1-Mar  |
| 8                                                                                                                        | 6   | <b>CH 8 Review</b><br><b>-FRQ's Ch8 Practice Test</b>                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Ch.8 AP Practice Test (book)</b><br><b>Study Frappy's - 2 will be on Quiz</b><br>NG: AP Stats Ch8 Independent Review on my website |                           | 5-Mar  |
| 8                                                                                                                        | 7   | Ch8 Quiz - 40min time limit - MC(12MC, 6 pts each, 1-freeby) - 2 Frappys (32pts) - NO test corrections                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Start Ch9                                                                                                                             |                           | 7-Mar  |
| Thursday, Mar7th - Winter Carnival - 40min classes                                                                       |     |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                       |                           |        |

