

## 2017-2018 AP Statistics Assignments

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

Chapter	Day	Topics	Objectives: Students will be able to...	Homework	Reading	1/2B	1/2B
2	0 (post test)	2.1 Introduction, Measuring Position: Percentiles, Cumulative Relative Frequency Graphs, Measuring Position: z-scores <i>Activity (TBD): Match Histograms-Boxplots-Stats</i>	<ul style="list-style-type: none"> <li>Use percentiles to locate individual values within distributions of data.</li> <li>Interpret a cumulative relative frequency graph.</li> <li>Find the standardized value (z- score) of an observation. Interpret z- scores in context.</li> </ul>	1, 5, 7, 9a-b, 11, 13	Section 2.1	12-Sep	13-Sep
2	1	2.1 Transforming Data, Density Curves <i>Activity - 2.1A Explore Cum. Freq. Plot</i> <i>Activity 2.1B - Intro to Z-Scores and Normal Distribution</i>	<ul style="list-style-type: none"> <li>Describe the effect of adding, subtracting, multiplying by, or dividing by a constant on the shape, center, and spread of a distribution of data.</li> <li>Approximately locate the median (equal-areas point) and the mean (balance point) on a density curve.</li> </ul>	19, 21, 23, 31, and MC33-38	Section 2.2	14-Sep	15-Sep
2	t b d	<i>Activity - 2.1C Wolf STAT Company</i>					
2	2	2.2 Normal Distributions, The 68-95-99.7 Rule, The Standard Normal Distribution <i>Activity - 2.2A The Empirical Rule (68-95-99.7)</i> <i>Activity - 2.2B Finding area under a Normal Distributions</i>	<ul style="list-style-type: none"> <li>Use the 68–95–99.7 rule to estimate the percent of observations from a Normal distribution that fall in an interval involving points one, two, or three standard deviations on either side of the mean.</li> <li>Use the standard Normal distribution to calculate the proportion of values in a specified interval.</li> <li>Use the standard Normal distribution to determine a z- score from a percentile.</li> <li>Using Table A</li> </ul>	Complete Activities  PLUS 41, 43, 45, ( <b>47&amp; 49</b> <b><u>Sketch &amp; Use calc!!</u></b> ), 51		18-Sep	19-Sep
2	3	2.2 Normal Distribution Calculations and Assessing Normality <i>Activity - 2.2C Solving Problems with the Normal Distributions</i>  2.2 NOT COVERED-->Normal Probability Plots on the Calculator	<ul style="list-style-type: none"> <li>Use TI84 to find the percentile of a value from any Normal distribution and the value that corresponds to a given percentile.</li> <li>Make an appropriate graph to determine if a distribution is bell-shaped.</li> <li>Use the 68-95-99.7 rule to assess Normality of a data set.</li> <li><del>Interpret a Normal probability plot (not on AP exam)</del></li> </ul>	53, 54, 55, 63, MC69-74  <b>Starts Frappy's (1st 2 pages)</b>		20-Sep	21-Sep
2	4	<u>Chapter 2 Review</u> <i>Activity - Chapter 2 Practice Q/T</i> <i>Activity - Frappy's (complete 2 in-class)</i>	<i>Introduction to FRAPPY's -</i> <i>CHAP1: 2005q1 &amp; 2010Bq1(COMPLETE FOR HW)</i> <i>CHAP2: 2006Bq1 &amp; 2008q1(COMPLETE FOR HW)</i>	Complete Chapter 1&2 Frappy's (For each: 12min, score, correct)  Chapter 2 AP Practice Test		22-Sep	25-Sep
2	5	Chapter 2 Test		1, 3, 9, 10	Section 3.1	26-Sep	27-Sep