

## 2024-2025 AP Statistics Assignments

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

This Chapter is vocabulary intentensive !!!!!!!!!!!!! **Expect Open Notes 5-minute Quick Quiz's**

· It is important you understand the vocabulary, take notes, and come to class prepared to ask & ANSWER questions.

- TIPS: Do Guided Notes while reading. Print and read Glossary of important terms.

Graded NOTES (4x)- See Google Classroom for the template 'Analyzing Experiments Study Guide.' MUST TYPED. NO PLAGIRISM! Due day of test.

### Quarter 1 ends November 1 - Chapter 4 Goes on Q2

Chapter	pgDay	Topics	Objectives: Students will be able to...	Homework	Reading	4B	2O
4	0 (post test)	<b>Chapter 3 Test Part 1</b> 4.1 Introduction, Sampling and Surveys, How to Sample Badly, How to Sample Well: Random Samples	<ul style="list-style-type: none"> <li>Identify the population and sample in a sample survey.</li> <li>Identify voluntary response samples and convenience samples.</li> <li>Explain how these bad sampling methods can lead to bias.</li> <li>Describe how to use Table D to select a simple random sample (SRS).</li> </ul>	pgDay0 <b>MM Videos Day 1 &amp; 4</b>	Section 4.1 pgs 207-213 and take notes	28-Oct	29-Oct
4	1	Chapter 3 Test Part 2 4.1 Other Sampling Methods; Inference for Sampling, Sample Surveys: What Can Go Wrong? Activity 1: 4.1 Table D (IP:Review Sampling Methods, Types of Bias) Activity 2: Frappy's 2001q3, 2008q2	<ul style="list-style-type: none"> <li>Distinguish a simple random sample from a stratified random sample or cluster sample. Give advantages and disadvantages of each sampling method.</li> <li>Explain how undercoverage, nonresponse, and question wording can lead to bias in a sample survey.</li> </ul>	Finish pgDay1 packet <b>MM Videos Day 2 &amp; 3</b>	Finish Section 4.1 and take notes	30-Oct	31-Oct
4	2	4.1 Wrap Up Sampling and Types of Bias <i>Activity 1: The Jelly Blubber Sampling Design Activity (absent students do desmos version)</i> <i>Activity 2: Frappy's 2004Bq2 and 2010Bq</i>		Finish pgDay 2 packet <b>MM Videos Day 6</b>	Section 4.2 pgs 231-240 and take note	1-Nov	4-Nov
<b>Nov5(off) - Nov6(1/2 day) - Veteran's Day(Nov11 no school)</b>							
4	3	4.2 Observational Studies vs. Experiments, The Language of Experiments, How to Experiment Badly <i>Activity 1: 4.2a Introduction to Experiments</i> <i>Activity 2: Frappy's 1998q3, 1999q3</i>	<ul style="list-style-type: none"> <li>Distinguish between an observational study and an experiment.</li> <li>*Identify the experimental units or subjects, explanatory variables (factors), treatments, and response variables in an experiment.</li> </ul>	Finish pgDay 3 packet <b>MM Videos Day 7</b>	Section 4.2 pgs 240-243 and take note	nov6 (ER)	7-Nov
4	4	4.2 Experiments: How to Experiment Well with the 3 Principles of Experimental Design <i>Activity 1: 4.2b (part 1 of 2) Designing Studies - 3 Principals</i> <i>Activity 2: TPS4e #'s 45, 47, 51, 65, 67</i> <i>Activity 3: Frappy: 2006Bq5</i>	<ul style="list-style-type: none"> <li>Describe a completely randomized design for an experiment.</li> <li>Explain why random assignment is an important experimental design principle.</li> <li>Explain how a lurking/extraneous variable in an observational study can lead to confounding.</li> </ul>	Finish pgDay 4 packet <b>MM Videos Day 8</b>	Section 4.2 pgs 244-248 and take note	8-Nov	12-Nov

Chapter	pgDay	Topics	Objectives: Students will be able to...	Homework	Reading	4B	2O
4	5	4.2 Key Principals for Experiments plus Blocking, Blinding <i>Activity 1: 4.2b (part 2 of 2) Designing Studies</i> <i>Activity 2: Frappy: 2000q5, 2007q2</i>	<ul style="list-style-type: none"> <li>Distinguish between a completely randomized design and a randomized block design.</li> <li>Explain the meaning and the purpose of blinding in an experiment.</li> </ul>	Finish <u>pgDay 5</u> packet	Section 4.2 pgs 249-252 and take note	13-Nov	14-Nov
4	6	4.2 Matched Pairs Design <i>Activity 1: 4.2c Match Pairs</i> <i>Activity 2: TPS4e #'s 84&amp;85 5, PLUS T4.14</i> <i>Activity 3: Frappy's 2002q2, 2004q2 (match pairs)</i>	<ul style="list-style-type: none"> <li>Know when a matched pairs experimental design is appropriate and how to implement such a design.</li> </ul>	Finish <u>pgDay 6</u> packet	Read Section 4.3 and take notes	15-Nov	18-Nov
4	7	4.3 Scope of Inference <i>Activity 1: Inference and Experiments (MM video)</i> <i>Activity 2: Scope of Inference (MM video and/or Desmos)</i> <i>Activity 3: Frappy: 2003q4, 2006q5</i>	<ul style="list-style-type: none"> <li>Explain in context what "statistically significant" means.</li> <li>Determine the scope of inference for a statistical study.</li> <li>Evaluate whether a statistical study has been carried out in an ethical manner.</li> </ul>	Finish <u>pgDay 7</u> packet <b>MM Videos Day 9 and 10</b>		19-Nov	20-Nov
4	8	<b>Chapter Review:</b> No review Class. I want a few days for school cancellations so we take this test prior to Thanksgiving		Ch4 TPS Practice Test (optional)		NA	NA
4	9	<b>Chapter 4 MC Test</b>		Read Section 5.1 and do #s 1, 3, 13, 17, 19		<b>21-Nov</b>	<b>22-Nov</b>
tbd	tbd	<b>Open Dates:</b>				25-Nov	26-Nov
<b>THANKSGIVING- NOV27-DEC1(off)</b>							