

Welcome to AP Statistics! — Please complete the following before **August 15th**.
Bring vocabulary (handwritten) to class.

The purpose of the summer work is to prepare you for our deep dive into AP Statistics.

0. What is the branch of math that is called “Statistics”? Is it math like algebra or calculus? Is it applied math/science like physics or chemistry? I wish I could answer this question in a concise manner; the answer is debated sometimes in the math world. Statistics also is not normally marketed as a “pure math” in higher education. For now, we can view it as a way to apply math to decision making. I have included a [video](#) to help form your understanding of statistics.

1. AP Stats is rich in vocabulary. It should be no surprise that one of the first things requested of you is to write down vocabulary words, definitions, and examples. One sure way to become lost in class is to be lost in translation. [Handwriting is key in this endeavor!](#) Do not type or screenshot! The vocabulary words are on this document following the instructions. The vocabulary words are in order as they appear in chapter 1. I strongly encourage you to read the chapter as you complete the vocabulary list. I also included the glossary for better definitions.

2. Finally, the best way to prepare for AP Statistics is to start diving into the material. Khan Academy (my favorite reference website for mathematics and science) has a course called “Get Ready for AP Statistics” (that’s you). Each section has a short video and follow-up questions after each topic. [Join my Khan Academy classroom](#), then complete the course.

Please bring the vocabulary list with you to the first class and every class.

Note: I know this may seem like a lot, but most of this assignment is tedious rather than academically strenuous. Khan Academy should feel more like a review in a sense.

If you have any questions, please feel free to email me at mr.collins@hermits.com .
Please note that it is the summer and responses may take a few business days.

See you in August!

-Mr. Collins

PS: If you do not have a TI84 now, you need one!

Please complete the following before **August 15th**:

0.	<p>Watch “What Is Statistics: Crash Course Statistics #1” by CrashCourse.</p> <p>It is 13 minutes long and rich with interesting information.</p> <p>Do this first so that you can get an overview before diving into the material.</p> <p>Link: https://youtu.be/sxQaBpKfDRk?feature=shared</p>
1.	<p>Open Chapter 1 of the textbook and complete the vocabulary assignment. The words and space for your work is after these instructions (either print OR write on lined paper).</p> <p>Do not use a computer, it must be handwritten.</p> <p>I highly encourage you to read the chapter as you complete the vocabulary.</p>
2.	<p>Join my Khan Academy Classroom Link: https://www.khanacademy.org/join/PVTHHM8C</p> <p>Class Code: PVTHHM8C</p> <p>Please use your hermits email when creating the account (join with Google).</p> <p>Complete the course called Get ready for AP® Statistics while logged into your account. Watch each video and answer all questions until mastery. If you are not logged in, it will not record your progress. You must watch videos in full to receive credit. You do not need to turn in any written work.</p>
3.	<p>0. Did you watch the CrashCourse video? 1. Did you handwrite your vocabulary list with unique examples? 2. Did you complete the KhanAcademy Get ready for AP® Statistics while logged into your account?</p> <p>If you answered “yes” to the above three questions (and you put your completed vocabulary list in your backpack), you are done with summer work!</p>

Part 1: Vocabulary List

Please define each of the following terms from the textbook **on the left** (the glossary might be a good first look). When asked to provide a **UNIQUE** example or sketch of the word **on the right**, provide one that is not in the textbook and not one that your friends use!

Word/Definition	Example/Picture/Formula (do not overthink)
data analysis	
individuals	
variable	
categorical variable	

quantitative variable	
distribution	
inference	
frequency table	
relative frequency table	

roundoff error

pie chart

bar graph

two-way table

marginal distribution

conditional distribution	
side-by-side bar graph	
segmented bar graph	
association	
dotplot	

stemplot	
histogram	
Shape, center, spread	
outliers	
Symmetric	

skewed to the left	
skewed to the right	
Modes (on graph, not mode singular)	
mean	
Median	

Quartiles	
first quartile Q1	
third quartile Q3	
interquartile range (IQR)	
five-number summary	

Range	
Boxplots	
Variance	
standard deviation	