

## AP Statistics Summer assignment - ([dstephens@bcps.org](mailto:dstephens@bcps.org))

*If you plan on purchasing a new graphing calculator over the summer, please contact me first.*

Students should come to the 1<sup>st</sup> class ready to ask questions about the readings/videos and/or the assigned problems.

A test will be given during the second week of class.

Please keep in mind that most of the material is review.

**The following assignment is due on the first day of class.**

Join Khan Academy using the steps below.

<https://www.khanacademy.org/join/N7P8JSZV>



### How to join your teacher's Khan Academy class

- 1 Go to [khanacademy.org/join](https://www.khanacademy.org/join)
- 2 Enter your class code and press "Add".  
Class code: \_\_\_\_\_
- 3 If you don't already have an account, press "Create a new account". Enter your date of birth, then sign up using Google, your school email, or by creating a username.
- 4 Enter your grade and course. Now you're ready to start learning!

**(5) Once you join the class, I need to accept you into the class. Therefore, email me [dstephens@bcps.org](mailto:dstephens@bcps.org) to let me know you joined the class.**

**(6) Once I have accepted you into the class, the assignments should show up on your dashboard. It may take a few days.**

**(7) You do not need to submit your Khan Academy work. I will be able to track your work.**

**Below are topics you will be tested on the second week of classes:**

**Topics:**

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Identify individuals, variables and categorical variables in a data set

Identify individuals, variables, and categorical & quantitative data

Identify Random Variables (Quantitative/Qualitative)

Type of graph to make for a given set of data

Create, read and interpret a bar graph

Create and read frequency tables

Create, read and interpret a dot plot; stem plot; and histogram

Create, read, and interpret box plots

Create and interpret a box plot (by hand/TI-graphing calculator)

Side by side boxplots: Create and Interpret

Identify and calculate outliers in a quantitative data set

Calculate the Mean, Median, and Mode for a quantitative data set

Calculate and interpret Standard Deviation for a quantitative data set

Identify and interpret the 5-number summary for a quantitative data set

Calculate the mean, median, standard deviation, and 5-number summary on a graphing calculator for a quantitative data set

Skewed data/bimodal data/gaps in data/outliers in data

Describe a distribution using **Shape, Outliers, Center, and Spread (SOCS)**

Comparing two distributions using **Shape, Outliers, Center, and Spread (SOCS)**

When to use Mean/Standard Deviation or Median/IQR for a quantitative data set

Shifting/scaling data (Linear Transformations): What happens to summary statistics?

