

Welcome AP Psychology 2017-2018

Please complete the following assignments prior to the start of the school year. These assignments will be collected on the first day of class. It should go without saying- but I will say it- **ONCE- all work should be original and your own.** Have a wonderful summer and I will see you in September.

Assignment1-Statistics

Watch the following clip from YouTube and then complete the questions below. You may need to search other sources to answers some questions. The use of complete sentences is required.

<https://www.youtube.com/watch?v=iPfHCuEO0uM>

<https://www.youtube.com/watch?v=sWCoj0fCtnU>

https://www.youtube.com/watch?v=rD6rLx1_SE8

1. Describe the differences between the three measures of central tendency (mean, median and mode).
2. Describe a skewed distribution.
3. Relate the measures of central tendency to a normal distribution.
4. Relate the measures of central tendency to a negatively skewed distribution. Sketch a graph of what this would look like.
5. A test for which scores are normally distributed has a mean of 90 and a standard deviation of 7. Explain how this information can be used to describe how the scores are distribute.
6. Explain why norms for standardized tests must be periodically updated.
7. What is the difference between a test that is *valid* and one that is *reliable*?
8. Explain how one could determine if a test is biased?
9. Explain the difference between random sampling and random assignment.
10. What is the difference between descriptive and inferential statistics?
11. How do you get an unbiased sample?
12. Explain what is meant by the null hypothesis. Under what conditions would a correct decision be made when working with the null hypothesis?
13. Under which conditions would a t-test be used and when would the ANOVA be used?
14. What is meant by statistical significant? Relate this to a p-value.
15. Why is statistics important in the field of psychology?

Assignment #2 - "TED, Talk to Me."

TED is a nonprofit organization devoted to spreading ideas in short, powerful talks in 18 minutes or less. TED is an acronym for technology, entertainment, and design. I have sifted through the psychology section of TED and found 18 "talks" that could be of interest. Of these, you are to watch any **five** of your choosing. After listening to these lectures, you will create a 5 question, multiple choice 'quiz' **for each of the five** TED talks; make sure to include the answers to each of the questions. Then give a **short** review of the talk. Feel free to incorporate your opinion of the talk. What did you learn from this talk that surprised you or interested you? How could this information be incorporated into other aspects of "real" life?

Kang Lee: Can you really tell if a kid is lying?

Carol Dweck: The power of believing that you can improve

Tim Ferriss: Why you should define your fears instead of your goals

Jennifer Golbeck: Your social media "likes" expose more than you think

Michael Shermer: Why people believe weird things

Philip Zimbardo: The Psychology of Evil

Martin Seligman: New Era of Positive Psychology

Elizabeth Loftus: How Reliable is your Memory?

Susan Cain: Power of Introverts

Keith Barry: Brain Magic

Tony Robbins: Why We Do What We Do

Angela Lee Duckworth: The Key To Success - Grit

Amy Cuddy: Body Language Shapes Who You Are

Dan Gilbert: Surprise Science of Happiness

Pamela Meyer: How To Spot A Liar

Ami Kim: A New Way to Diagnosis Autism.

Beau Lotto: Optical Illusions Show How we See.

Oliver Sacks: What hallucination reveals about our minds