**PSY 201 Section 1**

**8/23/17 Discussion Questions**

**Topic: What Is Science/The Scientific Method**

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| Group Name: Psychology Group |
| Group Member Names: Jake, Nathan, Emily, Jackson, Titi, Morgan |
| What are the steps of the scientific method?  Scientific Method:   1. **Direct observation OR literature review** 2. **Form a hypothesis** 3. Design a study 4. Conduct the study 5. Analyze the data 6. Report the results 7. **Replicate the study** |
| Summarize the “crisis” described in *Repeat After Me*  The replication crisis can be summarized as many scientists that focus on replications are struggling to publish findings & results because the only studies being published are the eye-catching new findings. This crisis is caused by small study bias, where studies with small sample sizes report statistically significant results. Also, publication bias, where journals are more likely to publish studies that grab attention. |
| Which part of the scientific method is in crisis?  Reporting results and replicating studies |
| What errors have scientists made that led to the crisis?  Scientists are using too small of sample sizes and reporting big results.  Also, p-hacking, hypothesis after finding results. |
| What are the 3 ways of knowing?  Empirical, logical, intuitive. |
| Which way of knowing played a part in the crisis? Give 2 or more examples.  Intuitive, scientists are using their guts to go after the money.  Logical, scientists rationally think that more publications equals more money. |