**Results and Discussion Rubric!**

**Mindset to write this in:**

**Results**-State what you found, but do not interpret. Give just enough story to explain why you did a procedure, and then say what the outcome was. For example:

It had been shown that birds are amazing, but it was unknown whether birds are also cool. We compared the body temperature of birds to humans. Unexpectedly, birds were much warmer than humans (meanpeople= 98.6ºC , meanbirds= 120ºC, T=879, p < 0.001). It was possible that temperature was not a good measure of bird coolness, so we next examined whether birds were more likely to wear sunglasses.

**Discussion**- Here, you want to briefly summarize the findings of the paper. You then talk about how your findings relate to previous results from other papers (does your work confirm past results or not? If not, why might you have found different results?). Talk about flaws in your methods. Explain how your specific findings are important and relevant, and what research should be done in the future to continue your line of questioning. You can absolutely speculate on the meaning of your findings, but word carefully! Don't say "our results demonstrate that birds never sing during rush hour" when what you mean is "Our results show that some birds species adapt to urbanization by singing less during rush hour and more outside of rush hour."

**TOTAL: 20 points**

**Results:**

●Stated what you found (3 points)

●Gave statistical support for your claims (2 points): See my example above. You want the values you compared (in that case, two means), the statistic your statistical test spits out (for a T-test it's the T, for an ANVA it's F, for chi-squared, it's χ2) and the p value.

●Written in past tense. (1 point)

**Discussion:**

●Gave a one paragraph summary of what the goal of the paper was (i.e. the hypothesis) and what was found. (2 points)

●Talked about how the results matched up with previous research (2 points)

●Explained any issues in the methodology or ways our research could have been done better. I expect you to come up with several, because there definitely are some! (5 points)

●Cautiously speculate on the implications of your findings (1 points)

●Give several ideas for way future research could address flaws in this research and other research questions that could be asked given the data you found. (2 points)

●Reiterate why your results are important and how they will help science, birds, and/or society. (1 point)

●Written in present tense (1 point)