Data - Helpful Hints

1. Be sure to have a title above every table, chart, and graph.
2. Be sure to write a detailed caption for each picture. I have to know exactly what that picture shows!
3. Always write the units for every measurement! Meters (m), Centimeters (cm.), Celsius (°C), seconds (sec.), minutes (min), etc.
4. You must create at least one graph of your data. Remember, judges love graphs more than anything!

Results – Helpful Hints
This is where you tell the judges “Look what I have discovered!”

1. Really look at your data, search for patterns. See what you can notice as you study all of your data.
2. Describe your experiment in one sentence (In my experiment I...)
3. Describe the standard of comparison (control group), give clear details about what happened. You must give measurements! Use the AVERAGE of all your trials. Describe the range of your data. (Be sure to include all of your data, don't skip stuff because you don't want to write!
4. Compare the experimental groups measurements to the standard of comparison (control group), explain using words like, twice as much, 20% more, 13 cm shorter, etc.
5. Describe any overall patterns that you see.
6. Write a one paragraph summary of all of your observations.

Conclusion – Helpful Hints

1. Restate the hypothesis
2. State whether you accept or reject your hypothesis.
3. Explain why you accept or reject your hypothesis using actual data. You must have details and actual numbers from your data! Try to give three reasons.
4. Explain what you think happened in the experiment.
5. Describe any concerns you have about the accuracy of the experiment. Were there any problems with the procedure? Are there any reasons why we should doubt your data? Describe how you would improve this experiment if you ran it again.