Author's Name_____

# SPIDER LAB REPORT RUBRIC

**1. Title:** (2 points)
- ❑ Not written as a question, but written as a label
- ❑ Include: manipulated variable, test subject, what you measured.

**2. Abstract:** (3 points) Summarizes whole experiment
- ❑ Describes hypothesis being tested
- ❑ Summarizes the procedure in one sentence
- ❑ State and explain the overall findings

**3. Introduction**: (2 points)
- ❑ At least 2 things the author knows about spiders that relate to the question / hypothesis.
- ❑ At least 2 reasons for conducting the experiment

**Observations:** (2 points)
- ❑ 3 observations are included
- ❑ Each observation is labeled with the time the spider observation was made.

**Question:** (1 point)
- ❑ The question the class is trying to answer is included.

**Hypothesis**: (2 points)
- ❑ Predicts what will happen at end of experiment.
- ❑ Written as an If…then… statement.

**4. Materials**: (1 point)
- ❑ List of all materials needed to carry out experiment.

**5. Procedure**: (3 points)
- ❑ Numbered steps, someone could easily repeat the experiment using this procedure.
- ❑ Your sample size (number of webs you used) is: _____
- ❑ Sample Size/Repetition: How many times was this experiment repeated? _____ (# of class webs)

**6. Results-Data Table(s)**: (3 points)
- ❑ Two data table(s) one showing author's data and a second showing class data (includes author's data)
- ❑ Data tables have titles that clearly describe the data.
- ❑ Columns of data tables are labeled
  **-Graph**: (5 points)
- ❑ Has a strong title that describes the data in the graph
- ❑ Type of graph (bar/line) fits the data (no pie graphs).
- ❑ X-axis and Y-axis are correctly labeled.
- ❑ Equal spacing between number increments on the X and then also on the Y axis.
- ❑ Graph shows class data

**7. Conclusion/ Discussion:** (6 points)
- ❑ States if the class results are inconclusive, support, or reject the hypothesis. Restate your hypothesis in your response
- ❑ Uses data (numbers) from Results section to explain why the hypothesis was supported, rejected or inconclusive.
- ❑ Uses research (at least one source) that relates to the hypothesis being tested to explain why your individual and the class results turned out as they did, or why you would have expected different results.
- ❑ Includes bibliography for research
- ❑ Include sources of error, suggestions for improvement
- ❑ Ends with 1-2 questions the author has, as a result of conducting the spider experiment (questions that an experiment could be designed to answer).

**8. Overall effort and quality of work** (11 points)
- ❑ Written using complete sentences, mostly short paragraphs not lists or bullets, uses scientific language. 1 2 3 4 5 (circle one 5=high score)
- ❑ Neat and organized 1 2 3 4 5 (5= high score)
- ❑ Lab report is put together in the order listed above with numbers and **headings** for each of the 10 categories.

**9. Score sheet** (1 point)
- ❑ This rubric sheet has been checked off by author and attached to the author's lab report.

_____ / 42   Total points      Evaluator's name_____