**BSMS Inquiry Report Rubric**

**Statement of the Problem**

\_\_\_\_\_\_\_ Not a yes/no question

\_\_\_\_\_\_\_ Independent and dependent variables included

\_\_\_\_\_\_\_ Problem is clearly testable

**Hypothesis**

\_\_\_\_\_\_\_ Statement is written as: If \_\_\_\_, then \_\_\_\_\_ .

\_\_\_\_\_\_\_ Prediction includes both independent and dependent variables

\_\_\_\_\_\_\_ A rationale is given for the hypothesis.

**Variables**

\_\_\_\_\_\_\_ Independent variable is correctly identified

\_\_\_\_\_\_\_ Dependent variable is correctly indentified

**Control**

\_\_\_\_\_\_\_ Control is correctly identified

**Materials**

\_\_\_\_\_\_\_ All materials used are listed properly with quantity and type

**Procedure**

\_\_\_\_\_\_\_ Procedure is well organized

\_\_\_\_\_\_\_ Procedure is in a logical sequence

\_\_\_\_\_\_\_ Enough information is given so another could repeat procedure

\_\_\_\_\_\_\_ Diagrams used (if needed)

\_\_\_\_\_\_\_ Repeated trials

**Results**

Qualitative Observations

\_\_\_\_\_\_\_ Observations given throughout the course of the experiment

Quantitative Data – Data Table

\_\_\_\_\_\_\_ All data is given

\_\_\_\_\_\_\_ All data has units

\_\_\_\_\_\_\_ Table(s) labeled properly

**Graph(s)**

\_\_\_\_\_\_\_ Appropriate type of graph used

\_\_\_\_\_\_\_ Graph has title

\_\_\_\_\_\_\_ Graph labeled properly (axes/series)

\_\_\_\_\_\_\_ Units included

\_\_\_\_\_\_\_ Appropriate scale used

**Analysis of Data**

\*All statements must be supported by the data.

\_\_\_\_\_\_\_ All data discussed and interpreted

\_\_\_\_\_\_\_ Unusual data points commented on

\_\_\_\_\_\_\_ Trends in data explained and interpreted

\_\_\_\_\_\_\_ Enough detail is given to understand data

**Conclusion**

\_\_\_\_\_\_\_ Hypothesis is evaluated according to data

\_\_\_\_\_\_\_ Hypothesis is re-stated

\_\_\_\_\_\_\_ **Reasons** to accept/reject hypothesis is given

\_\_\_\_\_\_\_ All statements are supported by the data

**Applications and Recommendations for Further Use**

\_\_\_\_\_\_\_ Possible reasons for errors are given

\_\_\_\_\_\_\_ Explain two ways to improve this experiment

\_\_\_\_\_\_\_ State two testable questions for future experiments