

Long Island Science and Engineering Fair Middle School Judging Rubric

Project #/Title: _____

Student Names: _____

Statement of Problem/Question/Hypothesis (11 pts.)

Total: _____ /11

- Stated in a way that cannot be answered yes/no (2 pts.)
- Hypothesis NOT in the form of a question (2 pts.)
- Statement gives enough information to understand prediction(s) (2 pts.)
- Quality/sophistication of problem/question (5pts.)

Variables addressed (4 pts.)

Total: _____ /4

- Independent-factor being tested (1 pt.)
- Dependent-factor which responds (1pt.)
- Controlled-factor(s) held constant (2pts.)

Materials (in logbook or on display board) (3 pts.)

Total: _____ /3

- Materials used in the project are listed (1pt.)
- Materials are appropriate for the project (2 pts.)

Procedure (15 pts.)

Total: _____ /15

- Procedure appropriate to address stated problem/question/hypothesis (5 pts.)
- Steps in procedure were carried out appropriately (4 pts.)
- Diagrams, illustrations, picture or flow charts show procedure in action (4 pts.)
- Evidence of repeated trials or appropriate sample size (2 pts.)

Data (15 pts.)

Total: _____ /15

- Raw data available with appropriate units (in logbook) (2 pts.)
- Data table is well organized and properly labeled (2 pts.)
- Charts/graphs are present & appropriate for data (4 pts.)
- Axes on graphs are properly labeled (2 pts.)
- Sample calculations are shown (in logbook) (1 pt.)
- Unusual data points (if collected) are included (2 pts.)
- Data collected is appropriate for stated problem/hypothesis (2 pts.)

Data Interpretation/Sources of Error (10 pts.)

Total: _____ /10

- Data patterns and trends are discussed and interpreted (4 pts.)
- Unusual data points discussed (if present) (2 pts.)
- Possible sources of error and effects of the error(s) are identified & discussed (4 pts.)

Conclusion (10 pts.)

Total: _____ /10

- Hypothesis is evaluated and accepted/rejected based on the data (4pts.)
- Suggestions for improvement of experiment/project are offered (2 pts.)
- Suggestions for future experimentation/projects are discussed (2 pts.)
- Practical application (real world relevance) of work are discussed (2 pts.)

Quality of Logbook & Presentation (32 pts.)

Total: _____ /32

- Display board is neat, well organized, and shows attention to detail (12 pts.)
- Oral presentation: experiment is presented in a concise, logical manner (12 pts.)
- If a group project: all members participated equally in the presentation (4 pts.)
- Bibliography present-appropriate for project (4 pts.)

Judges Name: _____

Total points earned: _____ /100