Scientific Investigation Project Rubric

Problem

2—clearly stated as a question.	**1**—not a question or not clear.	**0—not included**

Hypothesis

3—clearly stated outcome & reasons, if/then or other appropriate form.	**2**-outcome is clear, but reasons are poor or not included	**1**—poorly written, confusing	**0**—not included

Operational Definitions

2—clearly stated or none needed.	**1**—not clearly defined, but needed	**0**—not included

Procedures

4—all steps are clear and in logical order.	**3**—all steps included in reasonable order, but not clearly written.	**2**—vaguely written or some steps out of order or missing.	**1**—very confusing and/or incomplete	**0**—not included

Materials

3—all materials listed with amounts	**2**—all materials listed but not with amounts or a few missing.	**1**—some materials listed, but many missing.	**0**—not included

Independent Variables

2—correctly identified	**1**—identified, but incorrect	**0**—not identified

Dependent Variables

2—correctly identified	**1**—identified, but incorrect	**0**—not identified

Controlled Variables

2—correctly identified	**1**—identified, but incorrect	**0**—not identified

Data Table

3—formatted according to instructions, completed at least <u>three</u> trials with averages, labels & units included. Is legible	**2**—data complete, but not formatted according to instructions—labels and/or units missing	**1**—data incomplete, disorganized, or illegible	**0**—not included

Graph

4—a) appropriate graph type, b) includes all labels on correct axes, c) correct intervals, d) average data accurately, e) neat	**3**—meets all but one of the stated criteria (a—e)	**2**—missing two of the stated criteria (a—e)	**1**—missing three or more of stated criteria (a—e)	**0—**not included

Statement of Results

3—accurately describes data, complete, clearly written	**2**—mentions most data, description & writing OK	**1**—doesn't discuss most of the data or does so inaccurately or in a confusing manner	**0**—not included

Conclusion

4—a) evaluates hypothesis, b) addresses things to do differently, and c) makes suggestions for further research; well-written, thorough	**3**—includes all core components (a—e) , but not well-written or thorough	**2**—missing one core component	**1**—missing two or more components	**0**—not included

Spelling

2—no errors	**1**—one to three spelling errors	**0**—four or more spelling errors

Attractiveness (included pictures/Neatness

2—eye-catching, uses color and pictures effectively, lettering easy to read, very attractive	**1**—looks OK, lettering adequate, some use of color and/or pictures	**0**—unattractive, lettering hard to read, poor use of color and /or pictures. sloppy

Organization/Follows Format

2—instructions followed completely	**2**—one or two sections improperly placed	**0**—many sections improperly placed for no logical reason, didn't follow given format

Instructor Comments: