

Loc: _____ Title: _____

JUDGES: Use this rubric to assign a **Level (1, 2, 3, or 4)** to **Parts A, B, and C** for the project.

*** ½ marks are acceptable. Students will only see the feedback portion, NOT the scores.***

EXPERIMENT: Undertake an investigation to test a scientific hypothesis using the experimental method. At least one independent variable is manipulated; other variables are controlled.

PART A: SCIENTIFIC THOUGHT

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Replicates a known experiment to confirm previous findings.	Extends a known experiment with modest improvements to the procedures, data gathering and possible applications.	Devises and executes an original experiment. Identifies the significant variables and attempts to control them. Analyzes the results using appropriate arithmetic, graphical or statistical methods.	Devises and carries out original experimental research in which most significant variables are identified and controlled. The data analysis is thorough and complete.

PART B: ORIGINALITY & CREATIVITY

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
The project design is simple with little evidence of student imagination. It can be found in books or magazines.	The project design is simple with some evidence of student imagination. It uses common resources or equipment. The topic is a current or common one.	This imaginative project makes creative use of available resources. It is well thought-out, and some aspects are above average.	This highly original project demonstrates a novel approach. It shows resourcefulness and creativity in its design, use of equipment, construction and/or analysis.

PART C: COMMUNICATION

(visual display + oral presentation + project report with background research + logbook)

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Most or all of the four elements are simple, insubstantial or incomplete. There is little evidence of attention to effective communication. In a pairs project, one member may have dominated the presentation.	Some of the four elements are simple, insubstantial or incomplete, but there is some evidence of student attention to effective communication. In a pairs project, one member may have made a stronger contribution to the presentation.	Most of the four elements are complete and demonstrate attention to detail and substance. The communication components are well thought out and executed. In a pairs project, both members made an equitable contribution to the presentation.	All elements are complete and exceed reasonable expectations of a student at this age/grade. The visual display is logical and self-explanatory. The exhibit is attractive and well laid out. Both project report and logbook are informative and written clearly; the bibliography extends beyond web-based articles. The oral presentation is clear, logical, and enthusiastic. In a pairs project, both members contributed equitably and effectively to the presentation.

**PART A
SCIENTIFIC
THOUGHT**
(1 – 4)

**PART B
ORIGINALITY
& CREATIVITY**
(1 – 4)

**PART C
COMMUNICATION**
(1 – 4)

**TOTAL
SCORE**
(max. 12)

On a scale of 1 to 5, should this project advance to the regional science fair (GVRSF)?

NO 1 2 3 4 5 ABSOLUTELY

Turn over to alert Chief Judge to any concerns (these will not be seen by students)

EXPERIMENT

Loc: _____

Student(s): _____

School: _____

JUDGES FEEDBACK FOR STUDENTS

Students will receive this portion after the fair. Please leave comments!

What was done well:

Areas to improve:

Quick alerts: If this project were to be revised, focus on...

- personal knowledge of subject
- background research on the topic
- experimental design
- use of control group
- identification of variables
- choice of materials/chemicals
- care & precision of observations
- care & precision of data recording
- application & synthesis of information
- level of difficulty vs. your age & training
- display of data
- analysis of data
- oral presentation
- display board
- construction & design
- attention to detail
- processes used
- sources of error

Other Comments (fold along dotted line & use other side as needed):

Further notes for students

Concerns for Chief Judge

Are there any concerns that the Chief Judge should be aware of?

(Check all that apply)

- Student did not show up for judging.
- Scoring based only on project display.
- Presentation shortened due to delay.
- Presentation affected by technical issues or noise.
- Evidence of unsafe practices.
- Student unable to present proof of ethics approval when asked.
- Project appears to be in progress (i.e. proposal only, no data collected).
- Significant part of project (e.g. research, construction, testing, analysis) outsourced rather than done by student.
- Other
