Project Number: 20102 Project Title: Which Bear is Best?

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.***

PART A: SCIENTIFIC THOUGHT

EXPERIMENT: Undertake an investigation to test a scientific hypothesis using the experimental method. At

least one independent variable is manipulated; other variables are controlled.				
LEVEL 1 LEVEL 2 LEVEL 3		LEVEL 4		
Replicate a known	Extend a known	Devise and carry out an riginal	Devise and carry out original	
experiment to	experiment with modest	experiment. Identify the significant	experimental research in which most	
confirm previous	improvements to the	variables and attempt to control	significant variables are identified and	
findings.	procedures, data	them. Analyze the results using	controlled. The data analysis is	
	gathering and possible	appropriate arithmetic, graphical or	thoyough and complete.	
	applications.	statistical methods.		

PART B: ORIGINALITY & CREATIVITY LEVEL 1 LEVEL 2

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.

LEVEL 3 This in aginative 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.

LEVEL 4

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 the 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 clearl the bibliography extends beyond web-base articles. The oral presentation is clear, logical, and enthusiastic. In a pairs project both members contributed equitably and effectively to the presentation.

SCIENTIFIC THOUGHT (1-4)

ORIGINALITY & CREATIVITY (1 - 4)

COMMUNICATION

Should this project advance to GVRSF? YES NO MAYBE

Notes (will not be seen by students):

good oral presentation, but also wouldn't stop talking about beets (unrelated?)

Project #: _	20102	Category: EXPERIMENT

Name(s): D. Schrute	School: DMFFLN
---------------------	----------------

JUDGES FEEDBACK FOR STUDENTS

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

What was done well:

- well-spoken and knowledgeable about the topic
- careful consideration of experimental variables
- content on display board is well laid out and informative
- detailed logbook

Areas to Improve:

- more trials needed
- consider using statistical software to analyse data

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

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

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