Group Members: _____

The Great Egg Drop Challenge

Project Rubric

I. Development of Project (Due: 22nd – 27th May)

A. Students will identify a purpose for their experiment	
10	Information including question to answer (variable to test), hypothesis, and diagram of container
9	Missing one section
8	Missing two sections
7	Missing three sections
6	Information does not include any of the necessary elements
< 6	Nothing turned in
B. Students will define materials needed in a materials list and the procedure for construction of the container and data collection procedure needed to study the relationship between their variables	
10	Step-by step procedure, includes a list of materials, how and what data they will collect
9	Instructions are difficult to follow or incomplete, or there is one section missing
8	Instructions are unsafe or misleading, or there are two sections missing
7	Instructions are unsafe or misleading and there are sections missing
6	Lack of instructions, or the instructions do not contain any necessary sections
< 6	No procedure turned in

C. Students will record their data in neat and organized data tables (including mass, height & time).	
10	Data table contains all necessary data to analyze variables identified, is neat, and was produced using a computer application.
9	Data table is messy, not well organized, or was not produced on a computer application
8	Data table is missing some necessary data or has two of the above problems
7	Data table has at least three flaws
6	Data table has none of the necessary parts
< 6	Data table was not turned in
D. Students will build a container which allows them to test the variable(s) they decide on. These containers will be dropped from the 1st Floor of the building by the students (28th & 29th May).	
10	Egg Container is described in materials section, is clearly useful to gather necessary data, and keeps egg from breaking.
9	Container is not described in materials section, but is useful for data collection and egg was safe.
8	Container is useful, but is not described in materials, and egg broke
7	Container could be useful, but egg broke
6	Container is not useful to the experiment
< 6	No Container was built.
TOTAL	

II. Analysis of Project (Due: 30th & 31st May)

E. Students will analyze data and write a conclusion which relates to their problem using data they collected and their knowledge of motion, forces & energy to support their conclusion.	
10	Conclusion answers question proposed in the purpose and is supported by the collected data and analysis
9	Conclusion is not supported by analysis
8	Conclusion is not supported by data or analysis
7	Conclusion does not answer the question in the purpose
6	Conclusion is not supported by data or analysis and does not answer the question in the purpose
< 6	No conclusion is turned in.
TOTAL	

III. Communication of Project (Due: 3rd & 4th June)

F. Students will write a formal lab report which will contain the question, hypothesis, materials list and procedure, data collection procedure, data table, a diagram of the egg container(s), analysis and the conclusion sections. It should be typed using a word processor, and include imported diagrams (if possible).	
20	Lab Report contains all the necessary parts
19	Lab Report is not word processed, or diagrams are not imported
18	Lab Report is missing one section
17	Lab Report is missing one section and another is not acceptable
16	Lab Report is missing two sections, or three are unacceptable
15	Lab Report is missing two sections, and up to three are unacceptable

14	Lab Report is missing three sections, or four are unacceptable
13	Lab Report is missing three sections and up to four are unacceptable
12	Lab Report is missing four sections, or five are unacceptable
11	Lab Report is missing four sections, and up to five are unacceptable
< 10	Lab Report is missing more than four sections, or more than five are unacceptable
TOTAL	

Group Work Participation throughout the Project	
10	Excellent contribution to the group: consistently working on task, encouraging others, asking questions & problem solving, contributing to group discussions.
9	Good contribution to the group: working on task majority of the time
8	Satisfactory contribution to the group: working on task most of the time
7	Little contribution to the group: rarely on task
6 & below	No contribution to the group

OVERALL TOTAL	/ 80

Comments: