Name: _____

Class: _____

RUBE GOLDBERG CHALLENGE

Evaluation Rubric

Mr. Podmers/Mr. Martin
VMSS
Basic Engineering

Trait	Scale				Level	Wt.	Pts.
	Excellent (4)	**Good (3)**	**Average (2)**	**Poor (1)**			
Step by Step Plan and Thumbnail Sketches	Plan was laid out telling what each step was through the use of thumbnail sketches and written details done neatly	Plan was laid out telling what each step was through thumbnail sketches, some details missing, neatness could be improved	Plan was missing 2-4 steps, details, and neatness could be improved	Plan was missing more than 4 steps, details, and has been done sloppily		x 2	
Working/ Mechanical Drawing	The drawing was done precisely with drafting tools, all steps and simple machines are shown, and measurements and details are shown	The drawing was missing 1 or 2 steps or simple machines, details, or measurements, neatness could be improved	The drawing is missing 2 to 4 steps, simple machines, or details, drafting tools were not used, neatness needs to be improved	The drawing is missing more than 4 steps, simple machines, or details, drafting tools were not used, and has been done sloppily		x 5	
Energy Transfers/ Steps	Rube Goldberg model has surpassed the minimum of 10 transfers (steps)	Rube Goldberg model has the minimum of 10 transfers (steps)	Rube Goldberg model has 5-9 transfers (steps)	Rube Goldberg model has 1-4 transfers (steps)		x 5	
Six Simple Machines	Rube Goldberg model has all 6 simple machines represented	Rube Goldberg model has 4-5 of the 6 simple machines represented	Rube Goldberg model has 3-4of the 6 simple machines represented	Rube Goldberg model has less than 3 of the 6 simple machines represented		x 2	
Team Work/ Participation	Student actively participated in the group through hands-on help, ideas, had a good attitude, and showed leadership	Student participated in the group with ideas and hands-on help, and had a good attitude	Student participated in the group minimally, and needed redirection often	Student did not participate in the group, and had a poor attitude		x 5	
Aesthetics	Rube Goldberg model is built solid, everything looks "professional" with minimal glue, tape, etc being visible. All parts have been fabricated using lab tools	Model has excess glue, tape, etc visible, 1 to 5 parts have not been fabricated using lab tools, but rather were used in "raw" form	Model has excess glue, tape, etc visible, 6 to 10 parts have not been fabricated using lab tools, but rather were used in "raw" form	Model is a mess. Parts are in disarray, some not attached at all, excess glue, tape, etc is visible, and more than 10 parts are in "raw" form		x3	

Did it complete the simple task?						
Checkpoint #1 with teacher's signature (5pts)						
Checkpoint #2 with teacher's signature (5pts)						

Grading Scale (%): A: 90 – 100 B: 80 – 89 C: 70 – 79 D: 60 – 69 F: Below 60	Comments:	Total Points = _____/ 98 Grade = _____ %

How many steps over 10 did you have? (1pt/ea up to 5)   ____pts

Bonus points for student voting:

Most complex machine   ____/5

Best overall aesthetics/ craftsmanship   ____/5

TOTAL after adding bonus/extra credit points   ____Pts