

Name \_\_\_\_\_

Class \_\_\_\_\_

## RUBE GOLDBERG MACHINE SCORE SHEET

**ABSTRACT** \_\_\_\_\_ / 5 pts.

- 1-2 paragraph descriptive overview of your project
- Includes the description of the task and steps taken to accomplish it

**IDENTIFICATION OF TASK** \_\_\_\_\_ / 5 pts.

- Includes a description of the task the machine should do

**BACKGROUND RESEARCH** \_\_\_\_\_ / 5 pts.

- Summarized, not copied (minimum 1 full page)
- Information is accurate and appropriate to the topic
- Student cites at least 2 reliable sources of information

**NUMBERED SKETCH WITH DESCRIPTION INCLUDING MATERIALS** \_\_\_\_\_ / 15 pts.

- Includes drawing of a numbered sketch
- Describes each unique event or action
- Materials are identified in the description of events

**THREE OR MORE SIMPLE MACHINES** \_\_\_\_\_ / 5 pts.

- Evidence of three or more simple machines used in the machine

**MINIMUM OF 6 UNIQUE EVENTS OR ACTIONS** \_\_\_\_\_ / 10 pts.

- Evidence of six or more unique events or actions (transfers of energy) used in the machine

**PROBLEM SOLVING LOG** \_\_\_\_\_ / 15 pts.

- Includes a log entry documenting work on the machine and any necessary revisions
- Pictures and or video is recommended
- Includes rough drafts of all collected data and observations

**REFLECTION/CONCLUSION/SUMMARY** \_\_\_\_\_ / 10 pts.

- Includes an introduction paragraph of how you came up with the idea
- Summarizes the strengths and weaknesses of the device
- Explains the unexpected struggles, accomplishments or surprises encountered while working on your device
- Reflects on any failures experienced, what was learned and how this new knowledge could be applied outside this project
- Describes where the supplies were acquired, what costs were involved, and what materials proved to be most useful in accomplishing the task
- Includes a concluding paragraph describing the observations made about energy in the device as well as what your future plans for the device would include

**DOCUMENTED SUCCESS** \_\_\_\_\_ / 10 pts.

- Working model or video proving the machine accomplished the task in one trial

**ADDITIONAL ITEMS FOR CONSIDERATION** \_\_\_\_\_ / 0-20 pts.