



Project ID# \_\_\_\_\_

Group Letter: \_\_\_\_\_

**PE-1 Energy**

This classification includes any device designated to illustrate one or more types of energy conversion or any device to illustrate one or more methods of power transmission (mechanical, hydraulic, pneumatic, electrical) or any device that combines a type of energy conversion with a method of power transmission. The device must be operational (by means of PLC, computer, EPROM, Remote control, etc.), be accompanied by plans and must have an explanation of the principles involved. Examples: (Robot, small engine, gear and belt arrangements, electrical-hydraulic transmission, device, solar or wind operated devices.) *[PLTW entries should be entered in EL-3]*

**Groups are eligible to participate A, N & P**

**PE-1 Entry Title** \_\_\_\_\_

Entry Checklist:

- \_\_\_\_\_ A complete set of plans must accompany the project.
- \_\_\_\_\_ Explanation of principles involved are included.
- \_\_\_\_\_ Technical Report

**Scoring Rubric**

Each project will be subject to this checklist with negative points deducted from 100.

Category:	- 4 or more	- 3	- 2	- 1	- 0	Neg. Pts.
Functional & Shows Good Design						
Quality Construction & Craftsmanship						
Accuracy and Neatness						
Good Choice of Materials						
Complexity – Creativity - Originality						
Subtract Negative points from 100					Project Rating =	

**Judges may subtract more than the -4 at there own discretion.**

Entry Violation: \_\_\_ Missing information. \_\_\_ No Technical Report: \_\_\_ (Total violation) \_\_\_\_\_

100-90 = I (blue) - 89-80 = II (red) - 79-65 = III (white)

**Overall Project Score** \_\_\_\_\_

- 2 or more pts. = shows effort, but more could have been done.
- 1 pt. = a very good effort - with minimal flaws or defects
- 0 pts. = Excellent effort - no mistakes or visible flaws

Grp A: is for students in grades 6, 7 and 8 who receive instruction averaging less than 6 clock hours per week.

Grp (N) - Novice or Amateur: a person who is new to the circumstances, work, etc., in which he or she is placed; beginner; tyro: a novice in the entry area. This entry area is for the 1st year the student has entered in this project area.

Grp (P) - Practiced or Experienced: skilled or expert; proficient through practice or experience: a practiced hand at project. This entry area is for the student has entered in this project area more than once.

Student info / Project ID#. \_\_\_\_\_

School. \_\_\_\_\_

Instructor. \_\_\_\_\_