Supplementary File 1: Student Data Collection Sheet

Name:_____

Energy Worksheet

Workstation	Draw a diagram for each station. Label where (and how) you adjusted the objects to change the speed and indicate if the object increased or decreased the speed.	Where is the energy? How do you know?
Balloon Release		
Bow and Arrow		
Ball on a hill		
Swinging Pendulum		

Supplementary File 2: Poster Rubric

Group Members:

Kinetic and Potential Energy Poster Rubric

Category	1	2	3	4
Relationship between Speed and Energy	Group was unable to articulate relationship between speed and energy.	Group was able to articulate relationship between speed and energy; however, explanation was limited or partially incorrect.	Group was able to articulate relationship between speed and energy.	Group was able to articulate relationship between speed and energy, with examples for support.
Photographs	Photographs not labeled correctly with description/stages of energy.	Photographs partially labeled correctly with description/stages of energy.	Photographs labeled correctly with description/stages of energy.	Photographs labeled correctly with description/stages of energy. Explanations are thoroughly done.
Definitions	Group did not include definitions of kinetic and/or potential energy.	Group included definitions of kinetic and potential energy, but they were inaccurate.	Group included brief definitions of kinetic and potential energy.	Group included definitions of kinetic and potential energy, with examples of each.
Use of Class Time	Group did not use class time to focus on the task.	Group used some of the class time to focus on the task but mostly did not work.	Group used most of the class time to work and was fairly focused.	Group used all class time to work and was focused the whole time.
Collaborative Working	Group members did not work together and/or left someone out.	Group members worked together a little bit.	Group members worked together for most of the time.	Group members worked together effectively to complete the task.