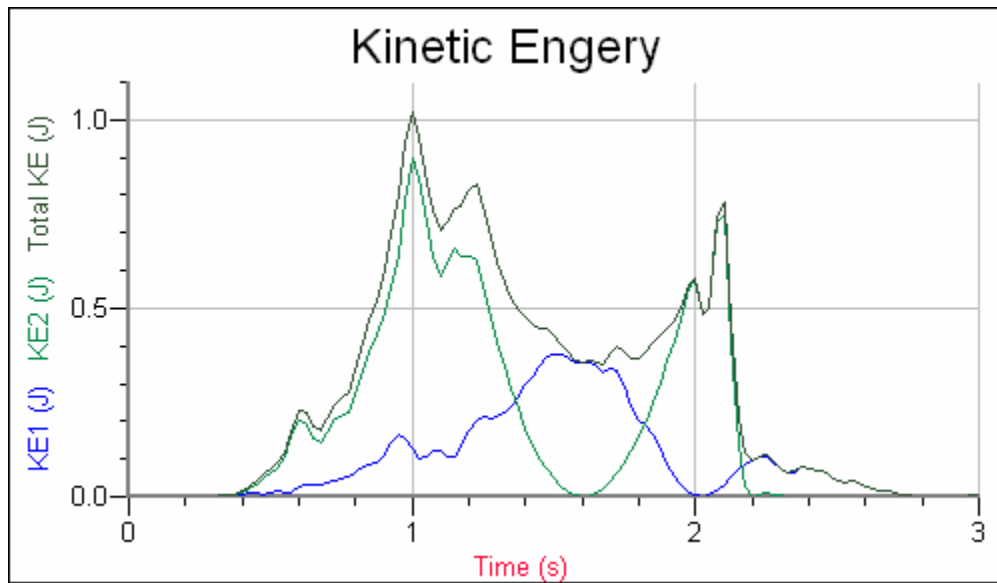


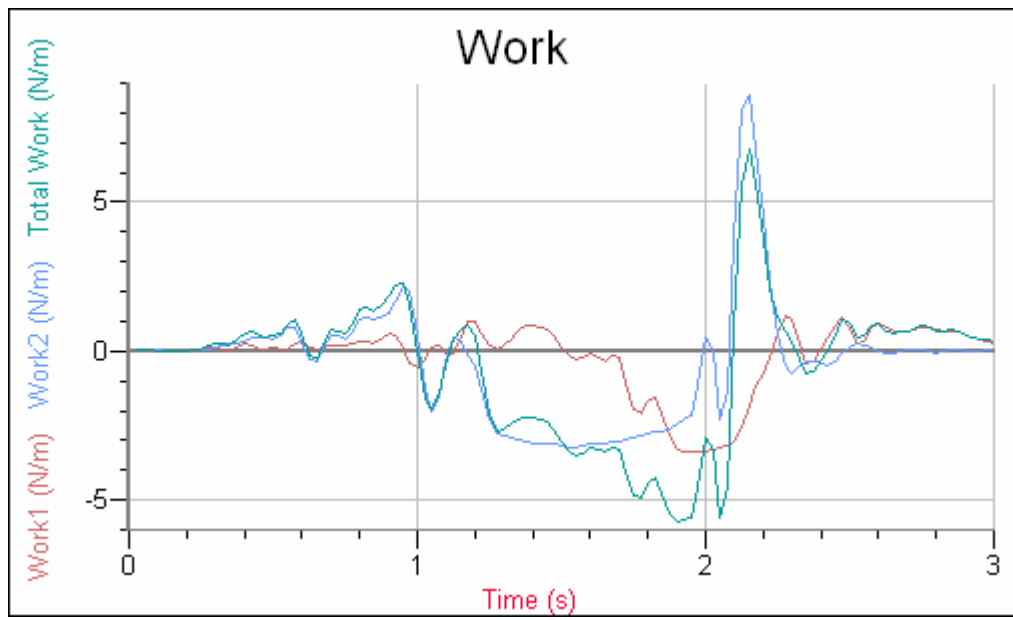
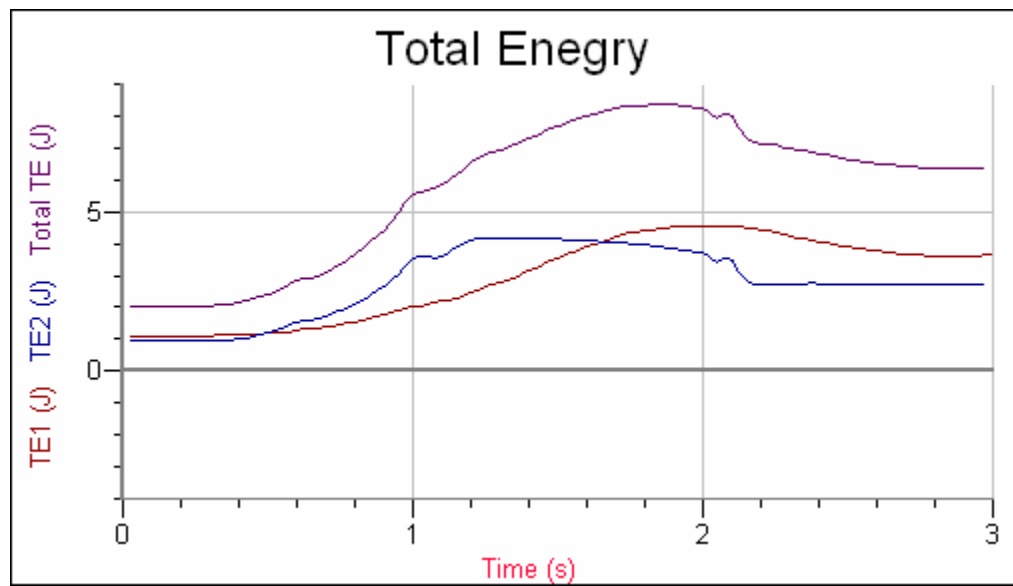
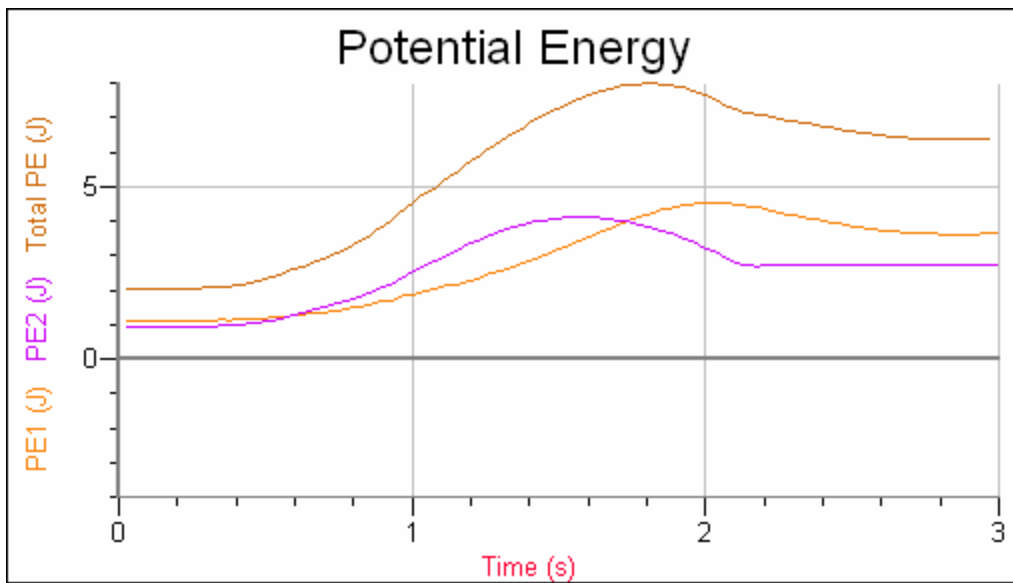
Janine Pizzimenti

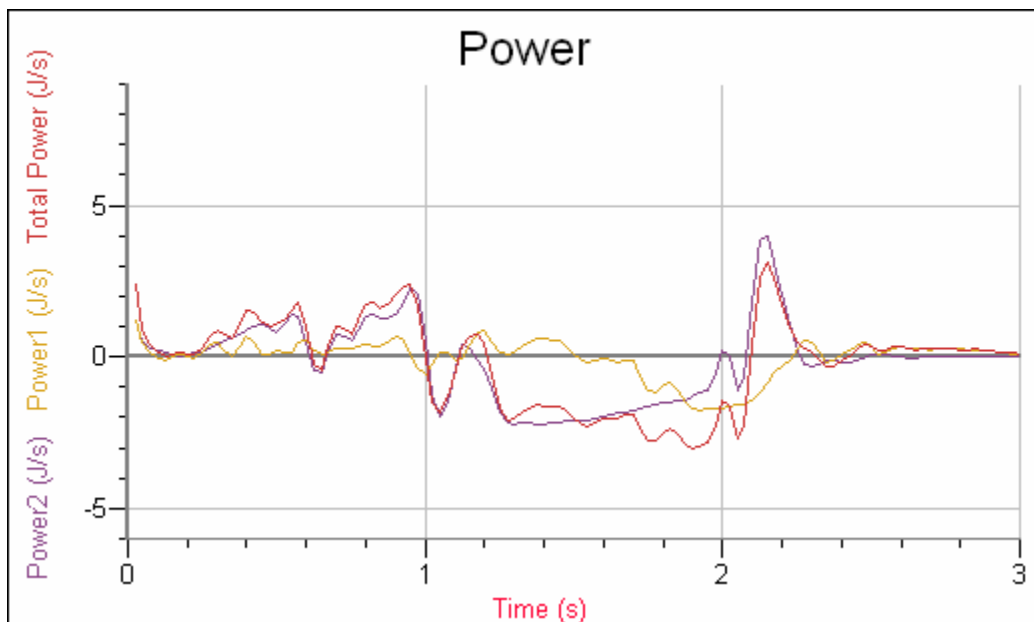
Physics – A

Work Energy Power

This lab was designed to demonstrate the transfer of work, energy and power in a system. This experiment consisted of a cart, on a ramp set at a constant degree, attached to with string to a weight hanging off a pulley. The hanging mass was held up by the pulley and was released. As the weight fell, the cart accelerated up the ramp and the motion detector at the bottom recorded the cart's motion. Based on this data, graphs of work energy and power could be produced. They are as follows:







Also, as a part of this lab, the work of two different body parts was measured. The data for my body was as follows:

Work of Janine's legs				
	Right leg (s)	Left leg (s)	Work - Right leg (N/m)	Work - Left leg (N/m)
1	1.12	1.31	112.896	132.048
2	1.35	1.34	136.080	135.072
3	1.24	1.26	124.992	127.008
4	1.26	1.37	127.008	138.096
5	1.10	1.29	110.880	130.032
6	1.28	1.25	129.024	126.000

The work of my legs was measured by timing how long it took me to step up onto the seat of a chair.