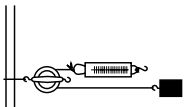
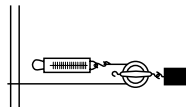
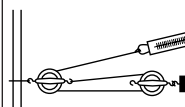
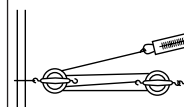
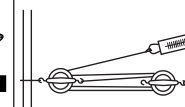


**Sample Data Table** (Student data will vary.)

Pulley Arrangement	Mass Raised (kg)	Weight (W) (Newtons)	Height (h) raised (meters)	Work Output (W·h) (Joules)	Input Force (F) (Newtons)	Distance (d) of force (meters)	Work input (F·d) (Joules)	Number of Supporting Strands	MA	Efficiency $\frac{W \cdot h}{F \cdot d}$ (100%)
1 	.5	4.9	.10	.49	5.0	.10	.50	1	.98	$\frac{.49}{.50} = 98\%$
2 	.5	4.9	.10	.49	2.7	.22	.59	2	1.8	$\frac{.49}{.59} = 83\%$
3 	.5	4.9	.10	.49	2.6	.22	.57	3	1.9	$\frac{.49}{.57} = 86\%$
4 	.5	4.9	.10	.49	1.7	.32	.54	4	2.9	$\frac{.49}{.54} = 91\%$
5 	.5	4.9	.10	.49	1.3	.41	.53	5	3.8	$\frac{.49}{.53} = 92\%$