

Data and Observations

Weight of 1-kg mass: _____

Table 1

Measurement	Student data
time	
Force (N)	
distance	

Table 2

Calculation	Student data
Work (J)	
Power (W)	

$$W = F \times d$$

$$P = W/t$$

Questions and Conclusions

1. Compare the amounts of work that you and your lab partner did. Why would you expect both amounts of work to be the same?
2. Compare the amounts of power developed by you and your lab partner. Why would you expect the amounts of power to differ?
3. How do the amounts of work and power depend on the speed at which the 1-kg mass is lifted?