

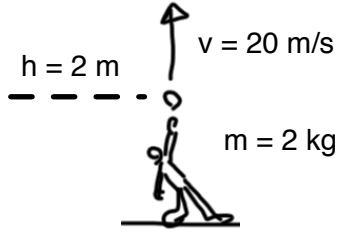
**Wk 27 Energy**

name: \_\_\_\_\_

D4: Total Mechanical E 2

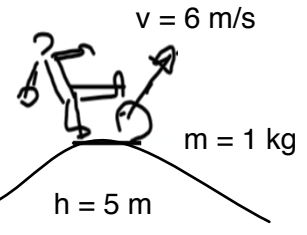
$$KE = \left(\frac{m}{2}\right)(v^2)$$

$$GPE = mgh = (kg)(10)(meters)$$



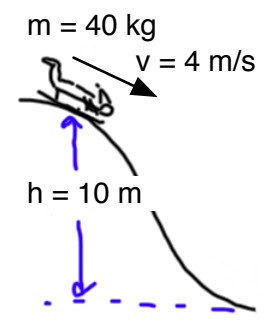
1. The player throws a 2 kg ball upward at 20 m/s. Find Total Mechanical Energy

TME:		
KE	+	GPE



2. The soccer player kicks a 1 kg ball at 6 m/s from a height of 5 m. Find Total Mechanical Energy

TME:		
KE	+	GPE



3. The 40 kg sledder moves at 4 m/s at a height of 10 m. Find Total Mechanical Energy

TME:		
KE	+	GPE

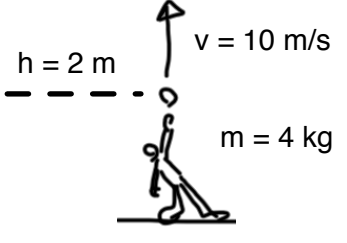
**Wk 27 Energy**

name: \_\_\_\_\_

D4: Total Mechanical E 2

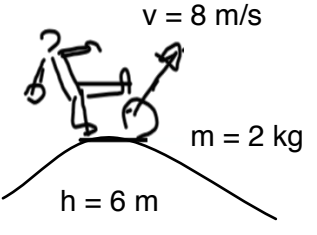
$$KE = \left(\frac{m}{2}\right)(v^2)$$

$$GPE = mgh = (kg)(10)(meters)$$



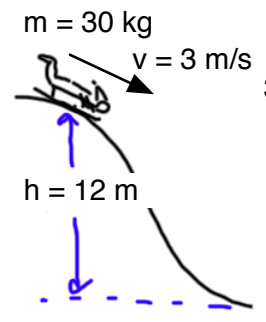
1. The player throws a 4 kg ball upward at 10 m/s from a height of 2 m. Find Total Mechanical Energy

TME:		
KE	+	GPE



2. The soccer player kicks a 2 kg ball at 8 m/s from a height of 6 m. Find Total Mechanical Energy

TME:		
KE	+	GPE



3. The 30 kg sledder moves at 3 m/s at a height of 12 m. Find Total Mechanical Energy

TME:		
KE	+	GPE