

LAB: THE HELPFUL PULLEY

1. Build both systems.

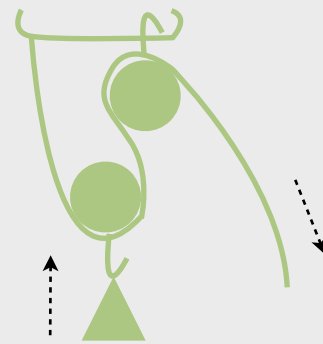
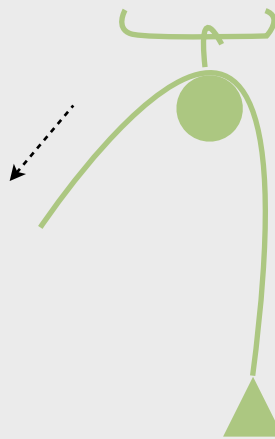
Schematic Drawing
Pulley System #1



Schematic Drawing
Pulley System #2



2. Devise a method to pull the string a distance of 30 cm in both systems.



Also indicate in the chart below which pulley system required more **force** to pull the string. If you don't remember, try it again.

Measure the distance the **load** moved in System #1 when you pulled the string a distance of 30 cm.

Measure the distance the **load** moved in System #2 when you pulled the string a distance of 30 cm.

	Force needed	Distance the string was pulled	Distance the load moved
Pulley System #1	<input type="checkbox"/> less <input type="checkbox"/> more	30 cm	
Pulley System #2	<input type="checkbox"/> less <input type="checkbox"/> more	30 cm	

Summarize your findings:

Can you relate your finding to the scientific definition of **work**?