Online Pulley Lab

Set *View* to **Angle.**

Select a **Pulley System.**

Set the *Load* to **5N**.

Set *Distance to Lift* to **0.2m**.

Set *Friction* to **0**.

Set *Pulley Diameter* to **0.2m**.

Go to *Controls* and slide the bar up until the load begins to move.

Record the minimum *Force* needed to lift the load in newtons (N).

Record the *Distance Pulled*.

Choose the next pulley and repeat the process.

Pulley System	Load (N)	Force (N)	Distance Pulled (m)
Single Fixed Pulley	5		
Single Moveable Pulley	5		
Single Compound	5		
Double Compound	5		
Triple Compound	5		

1. As you add pulleys to the system, what happens to the amount of force needed to lift the load?

2. What happens to the *Distance Pulled* as you add pulleys to the system?

3. Does the amount of work change?

1. **When you are done, open the Socrative app.**
2. **Room #: teamcscience**
3. **Take the Online Pulley Lab quiz. The quiz is the last three questions of this online lab.**