

Activity A:**Mechanical advantage**Get the Gizmo ready:

- Select the **1 fixed** pulley configuration.
- Set the **Weight** to 60 N and **Efficiency** to 100%.
- You will need a calculator for this activity.



Introduction: A pulley is an example of a **simple machine**. Many simple machines are useful because they allow the user to lift a heavy weight using less force than it would take to lift the weight directly. The **mechanical advantage** of the machine is a measure of this benefit.

Question: What is the mechanical advantage of each pulley system?

1. Predict: How will adding more pulleys affect the input force needed to lift the load?

More pulleys increase mechanical advantage, which reduces the amount of force needed to lift an object.

2. Gather data: With the **Weight** set to 60 N and the **Efficiency** set to 100%, find the minimum input force needed to lift the load with each system. Fill in the table below. Include units.

Pulley system	Weight (N)	Minimum input force (N)
1 fixed	60 N	60
1 fixed, 1 moveable	60 N	31
2 fixed, 2 moveable	60 N	16
3 fixed, 3 moveable	60 N	11

3. Summarize: How does the minimum input change as you add more pulleys to the system?

The amount of force needed drops considerably.

4. Analyze: Compare the input force to the number of pulleys in each system. Do you see a pattern? If so, describe it:

The rule is to divide the needed newtons by four for each pulley that is added to the system.

5. Apply: How much force do you think would be needed to lift a 100-N load with a pulley system composed of two fixed and two moveable pulleys?

Check your answer with the Gizmo. How much force was actually needed?

Answer Key Small Scale Lab

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