

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

Hongru Du

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Innovative Technology-based Solutions for Primary, Secondary and Tertiary STEM Education Cristina Hava Muntean, Diana Bogusevschi, Gabriel-Miro Muntean, 2019-09-23 This book presents innovative technology enhanced learning solutions for STEM education proposed by the EU Horizon 2020 funded NEWTON project by first highlighting the benefits and limitations of existing research work e learning systems and case studies that embedded technology in the teaching and learning process NEWTON s proposed innovative technologies and pedagogies include adaptive multimedia and multiple sensorial media virtual reality fabrication and virtual labs gamification personalisation game based learning and self directed learning pedagogies The main objectives are to encourage STEM education among younger generations and to attract students to STEM subjects making these subjects more appealing and interesting Real life deployment of NEWTON technologies and developed educational materials in over 20 European educational institutions at primary secondary and tertiary levels demonstrated statistical significant increases in terms of learner satisfaction learner motivation and knowledge acquisition New perspectives and emerging directions in predator-prey functional response research:

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covering both thermal and non thermal technologies as well as fermentation processes The book also explores the physicochemical and microbiological quality of dairy products derived not only from cow s milk but also from other mammalian sources such as goat milk Each chapter has been carefully crafted by experienced dairy scientists ensuring both scientific rigor and practical relevance throughout the volume Topics discussed include Thermal and non thermal milk processing technologies in the dairy industry Producing and characterizing dairy powders Innovative approaches to minimize waste and optimize resource use in milk processing Precision fermentation can create dairy identical proteins Goat milk s nutritional profile and quality traits Hygiene and compositional quality of raw cow milk *Perovskite Solar Cells* Arthur James Swart,Keshav Kumar,Bishwajeet Pandey,Sakshi Sharma,2025-10-28 This book provides a comprehensive overview of the role of modeling in advancing perovskite solar cell technology and its implications for the future of renewable energy It encompasses various aspects of perovskite solar cell modeling including computational modeling and simulation techniques experimental validation methods optimization strategies and performance evaluation metrics Features Discusses the basic principles working mechanisms materials and designing approaches related to the implementation of perovskite solar cells Covers electron and hole transport models computational approaches to charge transport and transport in different perovskite structures Illustrates the crystal structure composition optical and electronic properties stability and degradation mechanisms of perovskite materials Explains tandem solar cell design principles interface engineering for tandems and stability challenges in tandem solar cells Explores the performance parameters related to perovskite solar cells and the implementation of such devices It is primarily written for senior undergraduates graduate students and academic researchers in electrical engineering electrical and communications engineering energy engineering renewable energy and computer science and engineering *Army RD & A. ,1982*

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