

Title: The locker can raise the table by 5 meters

Generated on: 2026-03-16 03:54:55

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A student lifts a set of books off a table and places them in the upper shelf of a book case which is 2 meters above the table. If she applies a force of 5 newtons to lift these books, what is the work done?

(F) Downward Force or Weight: computes the mass needed to create the downward force (F) to raise the object with a lever.

To raise the height of a table temporarily, buy a set of bed risers, which are wood or plastic supports that go on the bottom of your table legs. For a more permanent solution, buy bun ...

To calculate the gravitational potential energy, follow these easy steps: Find the value of the gravitational acceleration at the reference point. On Earth's surface, you can use  $g = 9.81 \text{ m/s}^2$ ;  $E = m \cdot g \cdot h$ .

By knowing the energy needed to lift an object, you can estimate power requirements, design lifting systems more efficiently, and ensure accurate load handling in various practical scenarios.

Q: How can I calculate the power required to lift an object? A: To calculate the power required to lift an object, you need to know the work done in lifting the object and the time taken to lift ...

Safe-lifting calculator

Enter the energy, mass, gravitational acceleration, and height into the calculator to determine the missing variable. The following formula is used to calculate the energy required to lift ...

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