



Name _____ Class _____ Date _____

Match each of the following terms to its definition:

Newton

Compound machine

Input force

Mechanical efficiency

Mechanical advantage

Inclined plane

Joule

Lever

1. _____ - a machine that combines two or more simple machines



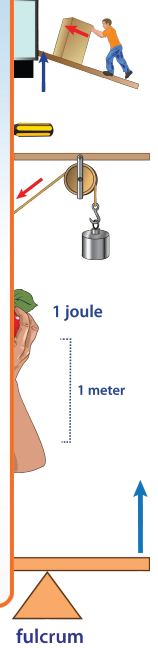
2. _____ - a simple machine that is a plane or a ramp that connects a higher area to a lower area allowing you to move an object up or down by rolling on



3. _____



4. _____
meter

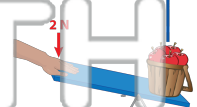


5. _____
around a

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6. _____ - a measurement of the amount of help a machine provides; the ratio of the output force to the input force

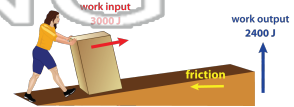
$$\text{mechanical advantage} = \frac{\text{output force}}{\text{input force}} = \frac{10 \text{ N}}{2 \text{ N}} = 5 \text{ N}$$



7. _____ - a measurement of the efficiency of a machine expressed as a percentage; the ratio of the work output to the work input times 100

$$\frac{\text{work output}}{\text{work input}} \times 100 = 80\%$$

$$\frac{2400 \text{ J}}{3000 \text{ J}} \times 100 = 80\%$$



8. _____ - the mathematical unit used to describe the amount of force





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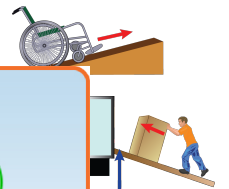
Joule

Lever

1. compound machine - a machine that combines two or more simple machines



2. inclined plane - a simple machine that is a plane or a ramp that connects a higher area to a lower area allowing you to move an object up or down by rolling or sliding it



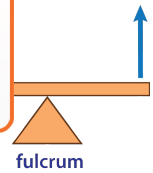
3. input



4. joule

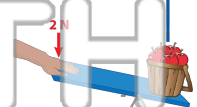


5. lever
point cal



6. mechanical advantage - a measurement of the amount of help a machine provides; the ratio of the output force to the input force

$$\text{mechanical advantage} = \frac{\text{output force}}{\text{input force}} = \frac{10 \text{ N}}{2 \text{ N}} = 5$$



7. mechanical efficiency - a measurement of the efficiency of a machine expressed as a percentage; the ratio of the work output to the work input times 100

$$\frac{\text{work output}}{\text{work input}} \times 100 = 80\%$$

work input 3000 J, work output 2400 J



8. Newton - the mathematical unit used to describe the amount of force



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