

Pulleys Quiz PDF

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What is the primary function of a pulley?
 To increase speed To change the direction of a force To decrease weight To create energy
What is a key advantage of using a compound pulley system?
 It is more compact It requires no maintenance It provides greater mechanical advantage It is less expensive
Which ancient civilization is known for using pulleys in construction?
RomansGreeksEgyptiansChinese
How does the number of rope segments in a pulley system affect its mechanical advantage?

Discuss the historical significance of pulleys in ancient construction.



hat are some challenges associated with the efficiency of pulley systems in practical applications	;?
oplain the role of friction in the operation of a pulley system and how it can be minimized.	
hat factors affect the efficiency of a pulley system?	
Friction	
Number of wheels Length of rope	
Material of the rope	

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Explain how a compound pulley system provides a mechanical advantage.



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Describe a real-world scenario where a pulley system is used and explain its benefits.	
Which of the following are types of pulleys?	
☐ Fixed Pulley	
Lever PulleyMovable Pulley	
Compound Pulley	
Which of the following are components of a pulley system?	
☐ Wheel	
□ Lever	
☐ Axel	
☐ Rope	
In which fields are pulleys extensively used?	
☐ Medicine	
Construction	
Engineering	
☐ Agriculture	

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In which of the following applications are pulleys commonly used?



○ Computers
○ Cranes
○ Televisions
○ Solar Panels
Which principles of physics are demonstrated by pulleys?
☐ Force
Acceleration
☐ Work
Energy conservation
What are the benefits of using a pulley system?
☐ Increases load weight
☐ Changes direction of force
☐ Reduces input force needed
☐ Increases speed of lifting
Which component of a pulley system allows the rope to move smoothly?
Which component of a pulley system allows the rope to move smoothly? Load
○ Load
○ Load ○ Axel
LoadAxelWheel
LoadAxelWheel
LoadAxelWheelChain
LoadAxelWheelChain Which type of pulley is fixed in place and does not move with the load?
 Load Axel Wheel Chain Which type of pulley is fixed in place and does not move with the load? Movable Pulley
 Load Axel Wheel Chain Which type of pulley is fixed in place and does not move with the load? Movable Pulley Compound Pulley
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 Load Axel Wheel Chain Which type of pulley is fixed in place and does not move with the load? Movable Pulley Compound Pulley Fixed Pulley Rotating Pulley What is the mechanical advantage of a pulley system primarily used for? Increasing speed

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What happens to the input force when using a movable pulley?	
○ It remains the same	
○ It decreases	
○ It increases	
○ It doubles	