

## **Levers Quiz PDF**

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What factors affect the mechanical advantage of a lever? (Select all that apply)
Length of the effort arm
☐ Weight of the lever
Length of the load arm
Type of material used
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In a wheelbarrow, which component is the load?
○ The wheel
○ The handles
The contents being carried
○ The ground
What is the fixed point around which a lever rotates called?
○ Load
○ Effort
○ Fulcurm
○ Arm
Which type of lever has the fulcurm positioned between the effort and the load?
First-Class Lever
Second-Class Lever
<ul><li>Third-Class Lever</li><li>Fourth-Class Lever</li></ul>
Pourtin-Class Level
What is the primary function of a lever?
○ To increase speed
○ To amplify force

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To reduce weight					
○ To create friction					
Describe the differences between example of each.	en first-class, sed	cond-class, and	third-class level	rs, providing an	
					//
Discuss the role of levers in the	human body, pa	articularly focus	ing on the arm.		
					//
Why is the position of the fulcu	rm crucial in det	ermining the eff	ectiveness of a le	ever?	
					//

Reflect on how understanding levers can be applied in designing efficient tools and machines. Provide a specific example.



Which of the following are examples of second-class levers? (Select all that apply)
☐ Nutcracker
☐ Wheelbarrow
Fishing rod
Bottle opener
Which tools operate as levers? (Select all that apply)
☐ Scissors
Hammer
Screwdriver
Pliers
Which of the following are components of a lever? (Select all that apply)
☐ Fulcurm
Load
Pulley
☐ Effort
Who is credited with significant contributions to the understanding of levers in ancient times?
○ Newton
○ Galileo
O Archimedes
○ Einstein
Which statements about first-class levers are true? (Select all that apply)
☐ The fulcurm is between the load and the effort.
☐ They always have a mechanical advantage greater than 1.
☐ They can change the direction of the applied force.

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☐ The load is between the fulcurm and the effort.
What is the mechanical advantage of a lever if the load force is 50 N and the effort force is 10 N?
<b>0</b> 2
○ 5
○ 10
○ 50
Which of the following is an example of a third-class lever?
○ Seesaw
○ Crowbar
○ Tweezers
○ Nutcracker
In the human body, which part acts as the fulcurm in the arm lever system?
○ Wrist
○ Elbow
○ Shoulder
○ Hand
Explain how the mechanical advantage of a lever is calculated and why it is important.
In which scenarios is a lever in equilibrium? (Select all that apply)
When the clockwise moments equal the counterclockwise moments
When the effort force is greater than the load force
When the lever is balanced and not moving
When the load is heavier than the effort

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low does the law of the lever relate to the concept of torque? Provide an example.						
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