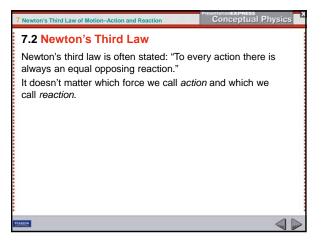
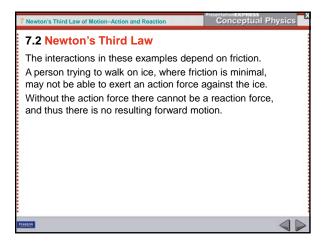
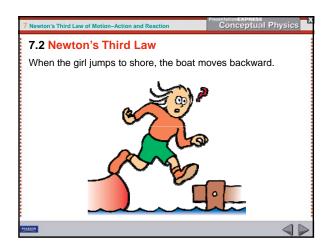


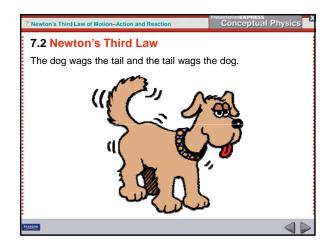
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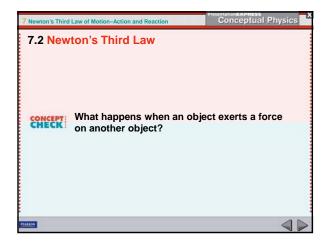


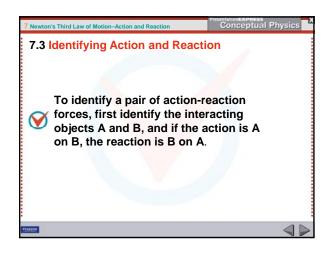
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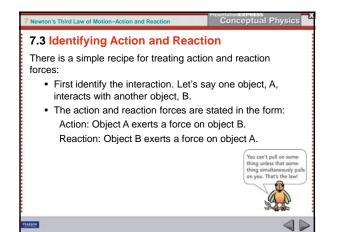


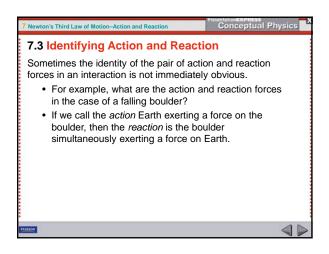


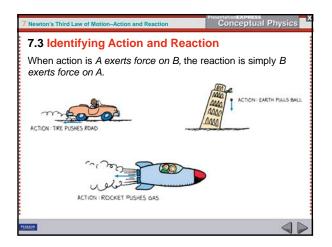


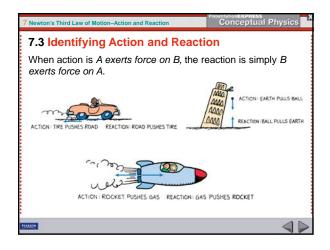


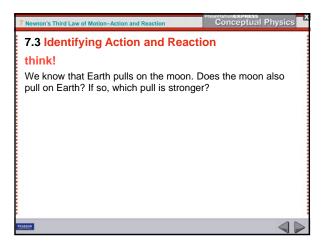


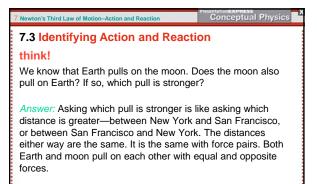


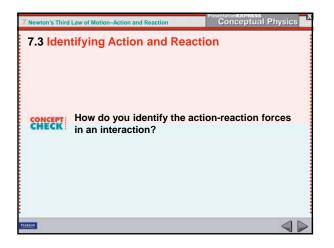


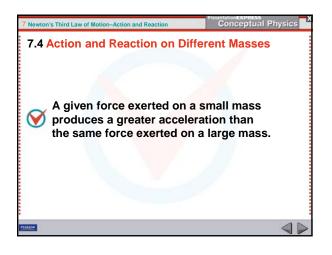


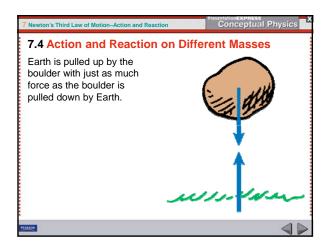


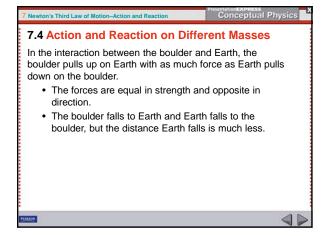


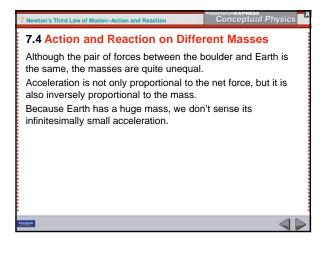










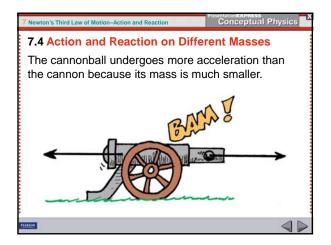


Newton's Third Law of Motion-Action and Reaction Description 20 Mission 7.4 Action and Reaction on Different Masses

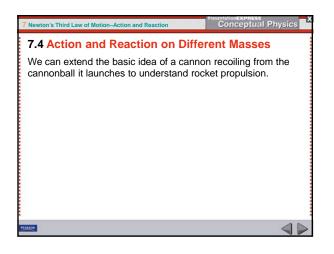
Force and Mass

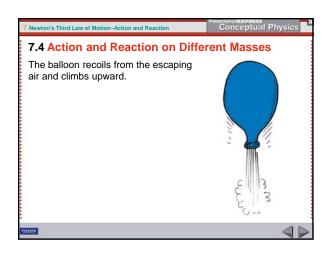
When a cannon is fired, there is an interaction between the cannon and the cannonball.

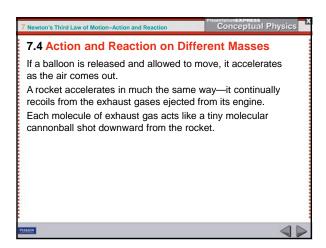
- The force the cannon exerts on the cannonball is exactly equal and opposite to the force the cannonball exerts on the cannon.
- You might expect the cannon to kick more than it does.
- The cannonball moves so fast compared with the cannon.
- According to Newton's second law, we must also consider the masses.

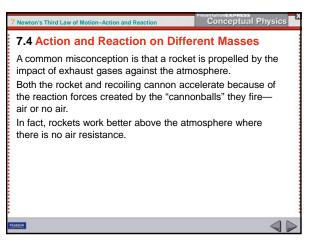


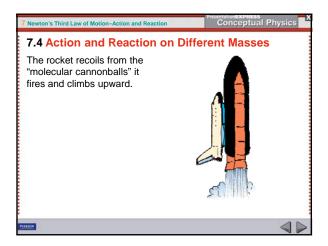
n's Third Law of Motion-Action and Reaction Conceptual Physics 7.4 Action and Reaction on Different Masses F represents both the action and reaction forces; m (large), the mass of the cannon; and m (small), the mass of the cannonball. Do you see why the change in the velocity of the cannonball is greater compared with the change in velocity of the cannon? Cannonball: $\frac{F}{m} = \mathcal{A}$ Cannon: $\frac{F}{m}$

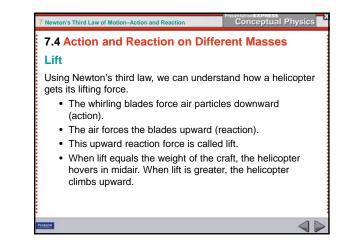


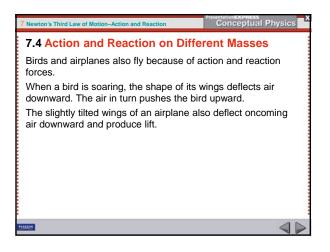


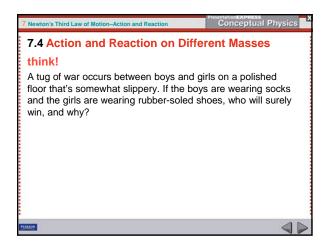




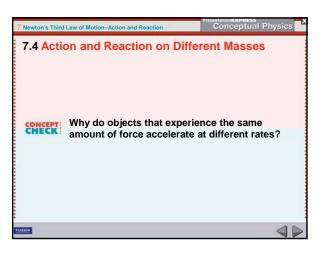


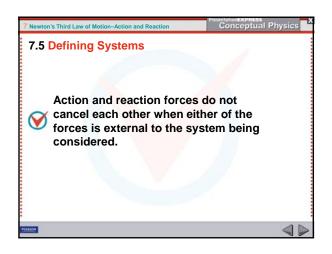


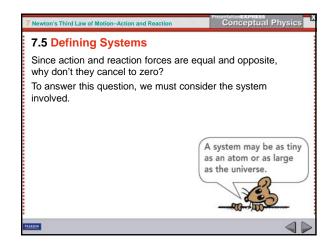


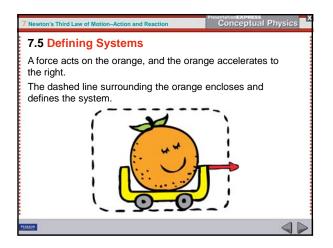


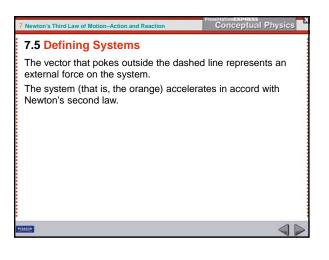
7 Newton's Third Law of Motion-Action and Reaction	Conceptual Physics	
7.4 Action and Reaction on Different Masses		
think!		
A tug of war occurs between boys and gi floor that's somewhat slippery. If the boys and the girls are wearing rubber-soled sh win, and why?	s are wearing socks	
Answer: The girls will win. The force of fri between the girls' feet and the floor than feet and the floor. When both the girls an action forces on the floor, the floor exerts force on the girls' feet. The girls stay at re slide toward the girls.	between the boys' d the boys exert a greater reaction	

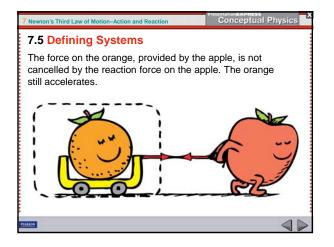


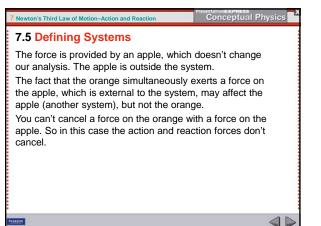


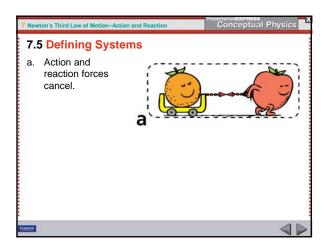


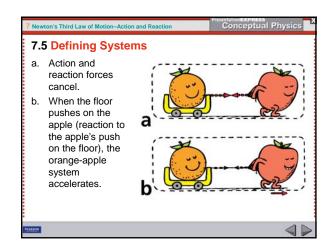


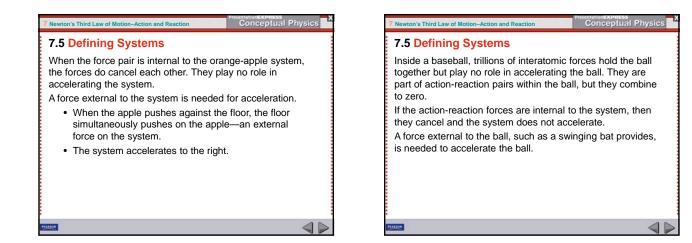


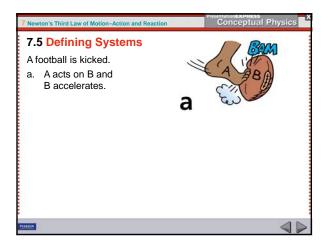


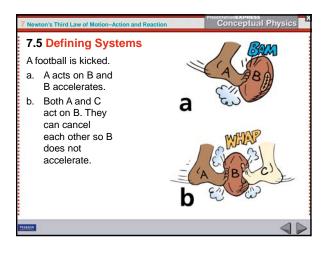


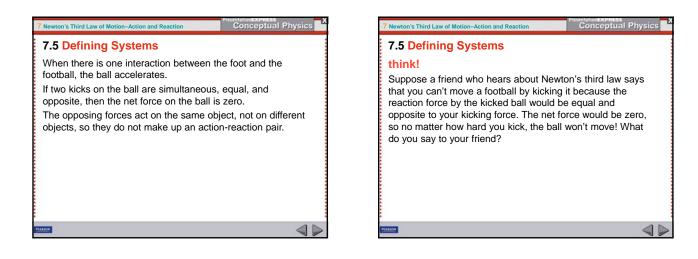


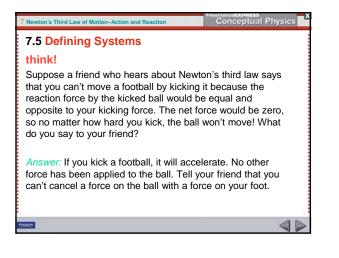


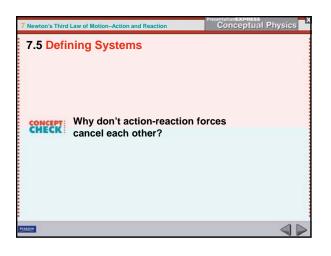


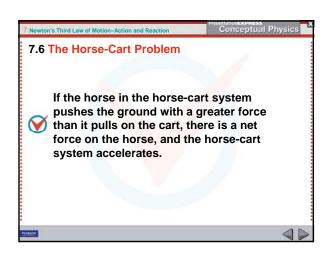


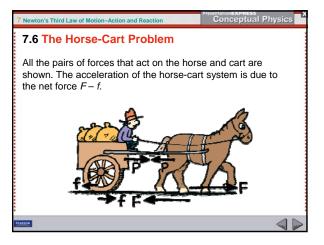


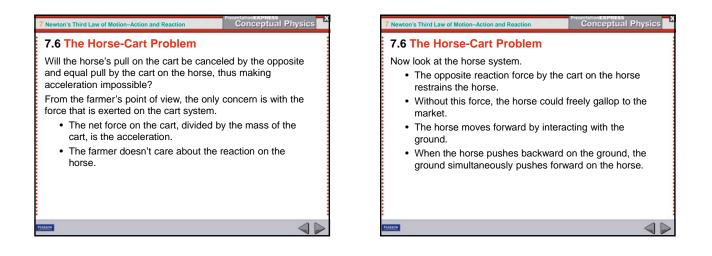


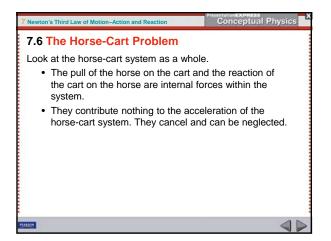


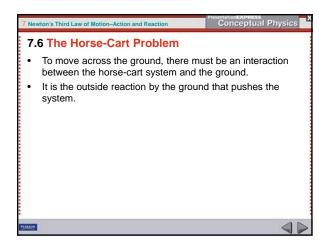




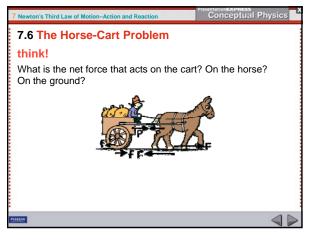


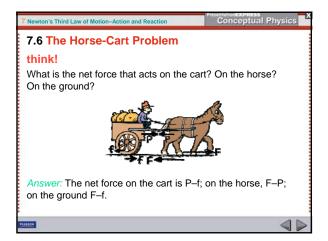


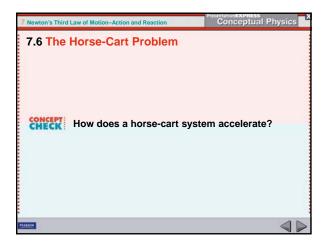


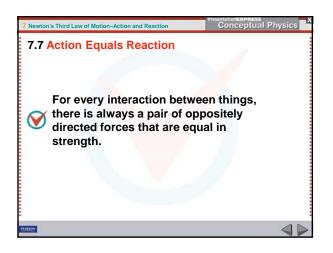


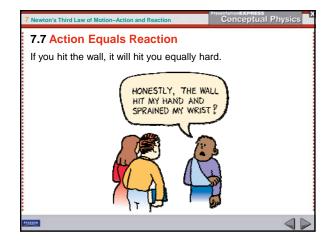


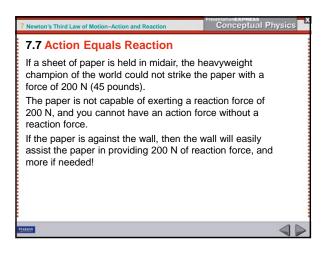


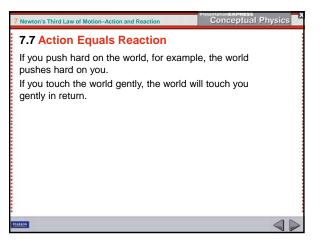


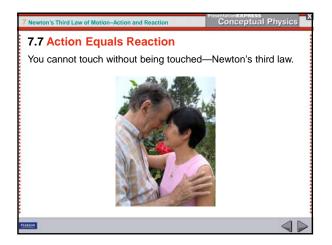


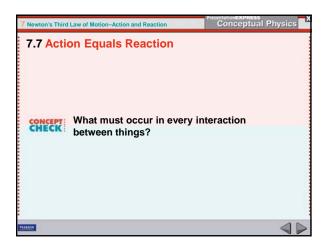


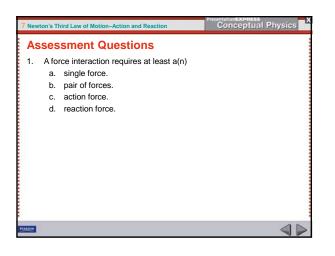


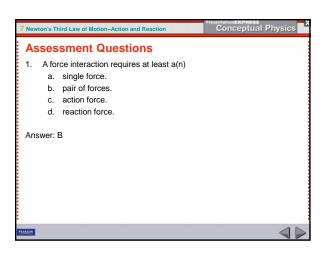




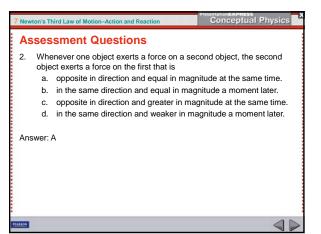




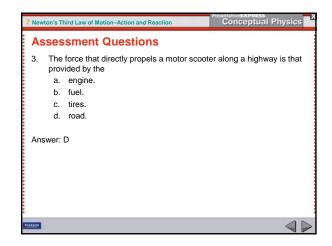


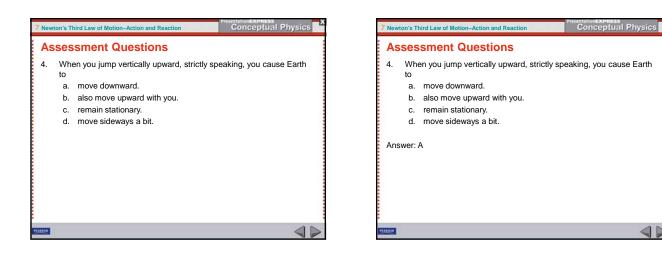


7	⁷ New	ton's Th	nird Law of Motion–Action and Reaction	Conceptual Physics
	Assessment Questions			
	2.		enever one object exerts a force on a sec ct exerts a force on the first that is opposite in direction and equal in magr in the same direction and equal in mag opposite in direction and greater in mag in the same direction and weaker in mag	hitude at the same time. nitude a moment later. gnitude at the same time.
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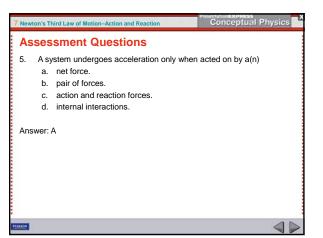


7 New	ton's T	nird Law of Motion-Action and Reaction	Conceptual Physics
As	Assessment Questions		
3.	 The force that directly propels a motor scooter along a highway is that provided by the 		
	a.	engine.	
	a. b.	fuel.	
	D. C.	tires.	
	d.	road.	
	u.	1000.	
-			
PEARION			

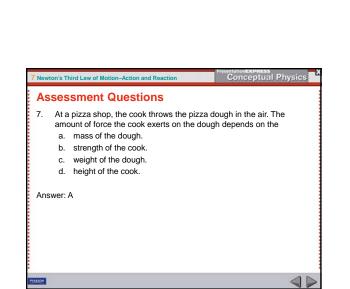




7 New	ton's Ti	nird Law of Motion-Action and Reaction	Conceptual Physics		
As	Assessment Questions				
5.	a. b. c.	estem undergoes acceleration only when net force. pair of forces. action and reaction forces. internal interactions.	acted on by a(n)		
PEARSON			$\triangleleft \triangleright$		



7 Newton's Third Law of Motion-Action and Reaction Conceptual Physics	7 Newton's Third Law of Motion–Action and Reaction Conceptual
Assessment Questions	Assessment Questions
 6. If a net force acts on a horse while it is pulling a wagon, the horse a. accelerates. b. is restrained. c. is pulled backward by an equal and opposite net force. d. cannot move. 	 6. If a net force acts on a horse while it is pulling a wagon, the horse a. accelerates. b. is restrained. c. is pulled backward by an equal and opposite net force. d. cannot move. Answer: A
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Conceptual Physics

