Newton's 3 rd Law Worksheet Physics Name Period
Choose the best answer for each question from the choices below. Be clear about which answer you are circling—none of this trying to circle 2 answers and be sloppy so I'll just count it correct © And then explain why you have chosen the answer you chose. Good Luck!!!
 Newton's 3rd Law states a. Objects in motion stay in motion and objects at rest stay at rest b. Force is equal to mass times acceleration c. For each action there is an equal and opposite reaction
Why???
 2. An archer shoots an arrow. The action force is the bowstring against the arrow, The reaction force is a. Air resistance against the bow b. Arrow's push against the bowstring c. Grip of the archer's hand on the bow
Why???
3. A player catches a ball. The action force is the impact of the ball against the player's glove. The reaction force is a. The force the glove exerts on the ball b. The player's grip on the glove c. The friction of the ground on the player's shoes
Why???
 4. A player hits a ball with a bat. The action force is the impact of the bat against the ball. The reaction force is a. The grip of the player's hands on the ball b. The air resistance on the ball c. The force of the ball against the bat
Why???
 5. A baseball player bats a ball with a force of 1,000 N. The ball exerts a reaction force against the bat of a. Less than 1,000 N b. More than 1,000 N c. 1,000 N
Why???
 6. A person is attracted toward the center of the Earth by a 500 N gravitational force. The force that the Earth is attracted toward the person is a. 500 N b. Much less than 500 N c. Much more than 500 N Why???

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 Newton's 3rd Law states a. Objects in motion stay in motion and objects at rest stay at rest b. Force is equal to mass times acceleration - 2-3 c. For each action there is an equal and opposite reaction - 3-3 	Two objects Two Forces action reaction		
Why??? 3-d Law involves = and opposite react	Ion		
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Why??? - It bow string applies force to arrow: arrow = papesite 3. A player catches a ball. The action force is the impact of the ball against the player's glove. The reaction force is (a) The force the glove exerts on the ball b. The player's grip on the glove c. The friction of the ground on the player's shoes			
Why??? Action Force ball to glove Reaction Force - 9	love to ball		
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Why??? Action force is ball to bat, Reaction for	rce bat to ball		
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Why??? Forces are equal and opposite			
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Chapter 5 Newton's Third Law of Motion Action and Reaction Pairs

In the example below, the action-reaction pair is shown by the arrows (vectors), and the action-reaction described in words. In (a) through (g) draw the other arrow (vector) and state the reaction to the given action. Then make up your own example in (h).

Example: Fist hits wall.	Head bumps ball.	Windshield hits bug.
Wall hits fist.	(a)	(b)
Bat hits ball.	Hand touches nose.	Hand pulls on flower.
Athlete pushes bar upward.	Compressed air pushes balloon surface outward.	(h)
(f)	(g)	

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