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

Why???\_\_\_\_\_

## 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:		70000000000000000000000000000000000000
Fist hits wall.  Wall hits fist.	Head bumps ball.	Windshield hits bug.
Bat hits ball.	Hand touches nose.	Hand pulls on flower.
	- Company	
Athlete pushes bar upward.	Compressed air pushes balloon surface outward.	(h)
(f)	(g)	