/6/2020 Ne	Newton's Third Law of Motion Print - Quizizz	
Quizizz	NAME :	
Newton's Third Law of Motion	CLASS:	
Newton's Third Law of Motion	DATE:	
14 Questions		
1. Newton's Third Law States		
☐ a) Objects in motion stay in motion an	d	

14 Questions			
1.	Newton's Third Law States		
	a) Objects in motion stay in motion and objects at rest stay at rest	\square b) Force is equal to mass times acceleration	
	c) For each action there is an equal and opposite reaction		
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	\square b) the arrow's push against the bowstring	
	c) the grip of the archer's hand on the bow		
3.	A baseball player bats a ball with a force of 1,000 N. The ball exerts a reaction force (without any additional forces action on it) against the bat of		
	a) Less than 1, 000 N	☐ b) 1,000 N	
	c) More than 1,000 N		
4.	A rocket pushes exhaust 10, 000 N. Without forces acting on the rocket, how much force rocket go forward?		
	a) 15,000 N	☐ b) 1,000 N	
	c) 10,000 N		
5.	What is the reaction force to a foot pushing floor?	down on the	
	a) The foot going through the floor	\square b) The floor pushing back against the foot	
	c) The floor breaking to the foot		

6.	According to Newton's Third law of forces will be	the strength or magnitude
	a) smaller	☐ b) equal
	c) larger	
7.	A swimmer pushes on the water the hand and the swimmer mov ACTION force?	·
	a) Swimmer pushes on the water	☐ b) the water pushes on the hand and the swimmer moves forward
8.	A swimmer pushes on the water the hand and the swimmer mov REACTION force?	·
	a) Swimmer pushes on the water	☐ b) the water pushes on the hand and the swimmer moves forward
9.	A bowling ball hits the pins and the ACTION force?	the pins fall over. What is
	a) Bowling ball hitting pins	☐ b) Pins falling over
10	System of interest Direction of acceleration First on two	The swimmer pushes off of the wall of the pool and moves forward. What is the ACTION in this example?
	a) Swimmer pushes off the wall o	f the pool

11.

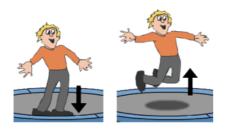


If you apply MORE force to the ground what happens to the ground pushing on you?

- \square a) The force remains the same
- \square c) The force decreases

☐ b) The force increases

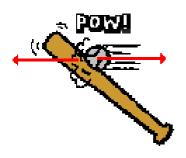
12.



If the gymnast decreases the force they exerts on the trampoline, what will the reaction be?

- ☐ a) The gymnast will be pushed back by the trampoline with more force and go higher into the air
- ☐ c) No change will happen to the gymnast
- ☐ b) The gymnast will be pushed back by the trampoline with less force and not go as high into the air

13.



The baseball player wants to hit a homerun. What does he have to do to the force they exert on the ball?

- ☐ a) The baseball player will need to apply more force to the bat swinging at the ball
- ☐ b) The baseball player will need to apply less force to the bat swinging at the ball
- ☐ c) The baseball player should change nothing about his swing

14.



Katniss Everdeen applies 20 N of force back on her bow. What happens to the arrow when she lets go?

- \square a) The arrow goes backwards
- \square c) The arrow goes forwards with 30 N
- \square b) The arrow goes forwards with 20 N
- ☐ d) The arrow goes forwards with 0 N

Answer Key

1. c

2. b

3. b

4. c

5. b

6. b

7. a

8. b

9. a

10. a

11. b

12. b

13. a

14. b