## **Unit 4 Reading Quiz**

(1) This is a preview of the draft version of the quiz

Started: Sep 23 at 9:34am

## **Quiz Instructions**

Question 1	1 pts
Which of the following is Newton's first law?	
what comes up must come down	
every object will remain at rest or in uniform motion in a straight line unless compelled to change its state by the action of e unbalanced forces	xternal
every action (force) in nature has an equal and opposite reaction (force) that each act on different objects	
net force equals mass multiplied by acceleration	

Question 2	1 pts
Which of the following is Newton's third law?	
every object will remain at rest or in uniform motion in a straight line unless compelled to change its state by the action of extension of exten	ternal

unbalanced forces	
every action (force) in nature has an equal and opposite reaction (force) that each act on different objects	
<ul> <li>net force equals mass multiplied by acceleration</li> </ul>	
<ul> <li>what comes up must come down</li> </ul>	
Question 3	1 pts
Question 3 Which of the following is Newton's second law?	1 pts
Question 3         Which of the following is Newton's second law?         • every object will remain at rest or in uniform motion in a straight line unless compelled to change its state by the action of unbalanced forces	1 pts

• every action (force) in nature has an equal and opposite reaction (force) that each act on different objects

net force equals mass multiplied by acceleration

Question 4	1 pts
Forces are an interaction between two objectsyou can't touch without being touched.	

False			

Question 5	1 pts
Which of the following was NOT mentioned as a force?	
centrifugal	
lift	
<ul> <li>normal</li> </ul>	
<ul> <li>thrust</li> </ul>	
drag	

Question 6	1 pts
When we label forces, we want and what object the force is by. 'kind' of force listed?	to indicate the type of interaction between the objects, what object the force is acting on There are three places (1st, 2nd and 3rd) in the force subscript. In which place is the

9/23/2019
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○ 2nd	
☐ 1st	
◯ 3rd	

Question 7 1 pts	
When we label forces, we want to indicate the type of interaction between the objects, what object the force is acting on and what object the force is by. There are three places (1st, 2nd and 3rd) in the force subscript. In which place is the 'victim' or 'receiver' of the force listed?	
○ 1st	
O 4th	
2nd	
3rd	

Question 8	1 pts
When we label forces, we want to indicate the type of interaction between the objects, what object the force and what object the force is by. There are three places (1st, 2nd and 3rd) in the force subscript. In which	e is acting on place is the

'agent' c	or 'perpetrator' of the force listed?		
4th			
3rd			
2nd			
1st			

Question 9	1 pts
The object under consideration as the 'surroundings'.	
○ True	
○ False	

Question 10	1 pts
Everything else in the environment that might in any significant way affect the system as the 'object'.	
True	
○ False	

Question 11	1 pts
Since the shape of the object is unimportant for a force diagram, we shrink it to a point.	
True	
False	
Question 12	1 pts
The point mass which represents the object for which we draw a force diagram should be placed at the intersect set of coordinate axes with one of the axes parallel to the direction of motion.	tion of a
True	
False	

Question 13	1 pts
When drawing a force diagram, do NOT enclose the system within a system boundary.	

<ul> <li>True</li> <li>False</li> </ul>	Question 14	1 pts
<ul> <li>True</li> <li>False</li> </ul>		
○ True		
True		
	True	

It is necessary to proceed around the system boundary line and identify all points at which there is contact between the system and its surroundings.

True

False

Question 15	1 pts
When drawing force diagrams, you should indicate which forces (if any) are equal in magnitude to other forces.	
True	
○ False	

1 pts

An elephant and a mouse are 100 meters apart in outer space where we assume the only forces acting on the two is force gravity. Which of the following is true?

the mouse exerts more force gravity on the elephant than the elephant on the mouse

• the mouse exerts less force gravity on the elephant than the elephant on the mouse

• the force gravity on the elephant from the mouse is the same as the force gravity of the mouse on the elephant

Question 17	1 pts
An elephant and a mouse are 100 meters apart in outer space where we assume the only forces acting on the two	o is
force gravity. Which of the following is true?	

The mouse and elephant will meet in the middle at 50 meters.

The elephant and mouse will meet closer to the mouse.

The mouse and elephant will meet closer to the elephant.

Question 18	1 pts
The earth exerts the same force gravity on the moon as the moon exerts on the earth.	

True

False

Question 19	1 pts
Since the earth has more mass than the moon, the earth exerts more force gravity on the moon than the moon e on the earth.	exerts
○ True	
<ul> <li>False</li> </ul>	

Question 20	1 pts
A penny dropped from a helicopter in free fall exerts the same force gravity on the earth as the earth exerts on th penny.	e
○ True	
<ul> <li>False</li> </ul>	

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