Fundamentals of Dynamics

Would you like to refresh your knowledge of the Laws of motion?
Opzione 1
Does Newton's 1st Law require velocity to be parallel to the applied force? *
○ Yes
○ No
O It depends on how great is the mass
It depends on the force type
Correct answer No
Feedback for correct answers
correct
Feedback for incorrect answers
uncorrect

When an object's velocity is zero, can there be forces upon 3 points the object? *	>
○ Yes	
○ No	
Yes, but non strong enough to cause motion	
○ We can't say	
Correct answer	
Yes	
Feedback for correct answers	
correct	
Feedback for incorrect answers	
uncorrect	

The SI unit for acceleration is *	3 points
○ m/kg	
O m/s	
m/s^2	
kg*m/s^2	
Correct answer	
m/s^2	
Feedback for correct answers	
correct	
Feedback for incorrect answers	
uncorrect	
The SI unit for force is equivalent to *	3 points
The SI unit for force is equivalent to * m/kg	3 points
	3 points
O m/kg	3 points
	3 points
m/kgm/sm/s^2	3 points
m/kgm/sm/s^2	3 points
 m/kg m/s m/s^2 kg*m/s^2 	3 points
m/kgm/sm/s^2kg*m/s^2 Correct answer	3 points
m/kgm/sm/s^2kg*m/s^2 Correct answer	3 points
 m/kg m/s m/s^2 kg*m/s^2 Correct answer kg*m/s^2 Feedback for correct answers correct 	3 points
 m/kg m/s m/s^2 kg*m/s^2 Correct answer kg*m/s^2 Feedback for correct answers	3 points

uncorrect

In the expression "balanced object", what does "balanced" refer to? *	3 points
○ v=0	
○ a=0	
O Sum of forces = 0 N	
homogeneous density	
Correct answers	
a=0	
Sum of forces = 0 N	
Feedback for correct answers	
correct	
Feedback for incorrect answers	

What is Newton's 3rd law?	3 points
F = m * a	
Object at rest or in motion stay at rest or in motion unless acted on by a outside force	ın
As the speed of a falling object increases, air resistance increases	
When one body exerts a force on a second body, the second body simultaneously exerts a force equal in magnitude and opposite in direct on the first body.	tion
Correct answer	
When one body exerts a force on a second body, the second body simultaneously exerts a force equal in magnitude and opposite in direction on the first body.	
Feedback for correct answers	
correct	
Feedback for incorrect answers	
uncorrect	

A 30 kg block with a velocity of 50 m/s is encounter constant 8 N friction force. What is the acceleration	_
O 6 m/s^2	
O.26 m/s^2	
O 24 m/s^2	
O 6.24 m/s^2	
Correct answer 0.26 m/s^2	
Feedback for correct answers	
correct	
Feedback for incorrect answers	
uncorrect	

A 30 kg block with a velocity of 50 m/s is encountering a constant 8 N friction force. How long does it takes the block to stop? *	3 points
O 12' 6"	
S8 "	
O 240"	
6' 12"	
Correct answer	
6' 12"	
Feedback for correct answers	
Correct	
Feedback for incorrect answers	
Uncorrect	

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