

Forces and Motion



Name	e C	lass Date			
1	Match the term with the correct definition.	Match the term with the correct definition.			
	1st law of A. a moving object tends to stay in motion	gravity A. tendency of an object			
	unless acted upon by	to resist change once in motion			
	2nd law of an unbalanced force	inertia B. force of attraction that			
	is an equal and	pulls objects toward			
	opposite reaction C. acceleration of an object	- caci villei			
	law of universal depends on mass and gravitation depends on mass and the net force affecting it	acceleration between two objects			
	gravitation life her horce ameding it	in contact			
3	Using the formula below, determine how	Match the term with the correct definition.			
	many seconds it would take for a satellite	sliding friction A. a person leaning			
	traveling at 4 miles per second to travel	against a brick wall			
		d			
		ABC			
5					
	A A A A A	A A II A A A A A A A A A A A A A A A A			
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		36			
	Using the formula below, determine how many seconds it takes for it accelerate	A the object is a 28			
	from 0 mph to 60 mph.	accelerating g 22			
	acceleration = final speed - initial speed	B the object is to the object is			
	tinle	the object is standing still 1 Time (s)			
	A 2 seconds C 8 seconds D 15 seconds	standing still o Time (s) D the object starts and stops			
_					
9	Using the formula below, calculate the	Using the formula below, calculate the			
	time it would take for a car to go from	initial speed of a car knowing the following information: The car was accelerating at			
	0 mph to 60 mph. The car is accelerating at 6 mph/s.	8 mph/s, its final speed was 90 mph, and it			
	acceleration = final speed - initial speed	was traveling for 10 s. final speed - initial speed			
	time	acceleration = time			
	A 2 seconds C 6 seconds	A 10 mph C 30 mph			
	B 4 seconds D 10 seconds	B 20 mph D 40 mph			



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Name	Cl	lass Date_	
1	Match the term with the correct definition. 1st law of motion 2nd law of an unbalanced force an unbalanced force is an equal and opposite leaction 1aw of universal gravitation Match the term with the correct definition. A. a moving object tends to stay in motion unless acted upon by an unbalanced force is an equal and opposite leaction C. acceleration of an object depends on mass and the net force affecting it	Match the term with the correct def gravity A. tendency of to resist chai in motion inertia friction acceleration Match the term with the correct def A. tendency of to resist chai in motion a force of attra pulls objects each other acceleration contact	an object nge once
3	Using the formula below, determine how many seconds it would take for a satellite traveling at 4 miles per second to travel	Match the term with the correct definition A. a person le against a b	eaning
5	_	IEW ign Up to download on of this worksheet	D
7	Using the formula below, determine how many seconds it takes for it accelerate from 0 mph to 60 mph. B C B Seconds B 4 seconds D 15 seconds	A the object is accelerating accelerating become accelerating the object is standing still the object starts and stops A the object is accelerating accelerating accelerating accelerating accelerating accelerating accelerating accelerating acceleration	A S G G G
9	Using the formula below, calculate the time it would take for a car to go from 0 mph to 60 mph. The car is accelerating at 6 mph/s. acceleration = final speed - initial speed time A 2 seconds B 4 seconds D 10 seconds	Using the formula below, calculate take initial speed of a car knowing the folloinformation: The car was accelerating 8 mph/s, its final speed was 90 mph, was traveling for 10 s. A 10 mph	g at and it