Mechanical Universe HS CONSERVATION OF MOMENTUM 16



Read the following questions before the video begins. Answer the questions while the video is in progress. This is an INDIVIDUAL effort, so complete it by yourself.

DON'T ASK OTHERS FOR ANSWERS since doing so would be cheating.

Most of the important information (and answers to the questions on this sheet) is in the text spoken during the presentation. So don't become entranced by the visual imagery; concentrate and stay focused on the words!

1. When no		act on a system, momentum is		
conserved.				
2. The principles involve	ved in conserv	ation of momentu	m originated (as did pocket	
billiards) in			-	
A. Chalky's Billiard Aca	ademy	B. Italy	C. England	
D. France	-	E. Germany	F. Michigan	
3. Newton's classic wo	rk is called			
A. The Starry Messenaer		B. The Harmony of the Worlds		
C. The Revolution of Heavenly Orbs		D. The Principia		
4. When the vector p is	s constant, the		is constant.	
5. The total	of the	two balls taken to	gether does not change.	
6. Conservation of mo	mentum applie	es to		
A. a single body only	B. t	wo bodies only	C. any number of bodies	
7. When a moving ball	hits a stationa	ary ball, the two ca	an come off at	
to ea	ach other. That	t's one possibility.		
8. When a moving ball	hits a stationa	ary ball, another p	ossibility is that one ball	
		and gives all its n	nomentum to the other ball.	
9. The music played at	t Chalky's Billi	ard Academy is		
A. Hot Latin Salsa	B. Banio D	ixieland	C. Acid Jazz	
D. Blues	E. Electro	nica	F. Speed Metal	

10. No question, free point!

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1. When no conserved.	act on a system, mor	nentum is
2. The original enunciation	of conservation of momentum came from	
A. Galileo Galilei	B. René Descartes	
C. Nicolaus Copernicus	E. Isaac Newton	
3. Newton used the word m	otion to mean	
4. When billiard balls collid other.	e, each ball exerts a momentary	on the
-		

5. The single point to focus on is the ______ of ______

6. When a moving ball hits a stationary ball, ______ outcomes are possible.

When a moving ball hits a stationary ball, the two can come off at ______

______ to each other. That's one possibility.

8. When a moving ball hits a stationary ball, another possibility is that one ball

_____ and gives all its momentum to the other ball.

C. Blues

9.	The music	nlaved a	at Chalky	's Billiard	Academy is
3.		ριαγευ α	JL CIIOLNY	$\mathbf{J} \rightarrow \mathbf{D}$	ACQUEILLY 13

- A. Brazillian Bossa Nova B. Ragtime
- D. Afro-Celtic Fusion E. Gangsta Rap F. Emo

10. No question, free point!