_	to MOODLE, go to Simple Harmonics section and click on The Physics Classroom line about pendulums. You may remember some of this information from previous c	_
1.	The mass that swings in a pendulum is called the	
2.	In a closed system, all the mechanical energy is words, the total mechanical energy is the same as the pendulum swings.	In other
Look at	the animation:	
3.	When the bob is at the highest point in the swing, all the energy is	
4.	When the bob is at the bottom of the swing, most of the energy is	
5.	In between there is some PE and some KE. The PE of the bob mostly depends on	its
	as it swings.	
6.	The KE of the bob mostly depends on thea	s it swings.
7.	Write the formula for calculating GPE	
8.	Write the formula for calculating KE	-
	*Notice on the website you can use their numbers to practice the calculations and the link to see the answer. Cool, eh?	d then click on
9.	Look at the animation. When does the bob have the highest velocity?	
10.	What is the average velocity of the bob at the point in #9?	

Name ______ date _____ hour _____

Chapter 11

12.	We know the period of a pendulum largely depends on the	of the string.
13.	The length of a pendulum is measured from the	to
	the of the bob	
14.	Write the formula used to calculate the Period of a pendulum	
15.	By looking at the equation, if you shortened the length of a pendulum, what we the period of that pendulum? Explain how you know this.	ould happen to
16.	Calculate the period for a 2kg bob swinging on a 3m rope. Show work	
17.	Calculate the period for a 15g bob swinging on a 6m rope. Show work	
18.	What would be the period of pendulum #17 if it were on the moon? Show you	r work

*If you have time, check out the You Tube "Super Cool Group of Pendulums" video on MOODLE \odot