Intro	duction to Phy	sical Science	page 17	Name		
* ab Activity: Swing Time  (ameworks Code)			7 0	Period Date		
, am	leworks Coue)					
Purpo	se: To develop	and test a hypothe	esis.			
Mater	ials: ring stand	, ring clamp, 5 meta	il washers, large paper	clip, 50 cm length of	string, stopwatch	
Proce	edure:					
1,	Read the whole procedure. Write a hypothesis describing how the mass of the pendulum bob will affect					
	the speed of it	ts swing.				
	·					
2.	Tie one end o	f a string to a ring c	lamp on a ring stand. T	ie the other end of the	e string to a large paper clip.	
	Pull out one s	one side of the paper clip to serve as a hook.				
3.	,					
4.	swings freely.  Pull the bob to	o the side so that th	e string makes an angle	of about 45° with th	e ring stand. Measure the	
	height of the l	bob above the table	top. In the space provi	ded above the data ta	ble, record this height as the	
_		on of the bob.	. 11 14 Desires a see	ltia. tha hab	will make from its starting	
5.	Release the be	ob gently, without p	oushing it. During a cor the time it takes for 1	npiete swing, the boo I complete swings, at	will move from its starting and record this time to the	
	-	in the data table.	of the third it takes for it	o complete sumgs, as		
6.	Find the avera	age time for one sw	ing by dividing the tota	I time by 10.		
7.				ch time by adding a w	asher. Make sure you	
	always start	the bob at the san	ne neight.			
Data	startin	g position (height)	of the bob:			
Data	Table:	Number	Time for	Average Time		
		of washers	10 swings (s)	for each swing (s	)	
		1				
		2				
		3				
		4				
		5				
Relat	ted Questions:					
1.	According to	your data, was you	r hypothesis correct?_	·	,	
2.	-	-	rom this experiment?			
_,			•		, , , , , , , , , , , , , , , , , , ,	

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## **Related Questions:**

1)	What is was your hypothesis for this investigation?
2)	What was the independent (manipulated) variable?
3)	What was the dependant (responding) variable?

4) What was the conclusion your group came up with?

5) What are  $\underline{2}$  possible sources of inaccuracy in this investigation?

A)

B)