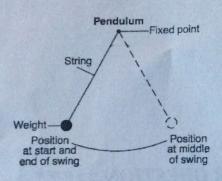
ANSWER KEY FOR UNIT 1 EXAM 23 AND 24

If you do not have time to type your answers in the form, please type "ON PAPER" The diagram represents a pendulum, which is a weight attached by a string to a fixed point and allowed to swing freely back and forth. Eryca, Joseph, Ava and Matthew did an experiment in which they timed, in seconds (s), how long it took for the pendulum to complete one swing (back and forth) for five different string lengths. They changed the length of the rope: 20 cm, 40 cm, 60 cm, 80 cm, 100 cm. They measured the time it took for each rope length to complete one swing. The collected data one time for each rope length. The results are shown in the data table. During their experiment they made sure to keep the type of string the same. They also used the same weight and Ava was the only one to time the pendulum's swing.



Data Table			
String Length (cm)	Time to Complete One Swing (s)		
20	0.9		
40	1.3		
60	1.6		
80	1.8		
100	2.0		

A. Testable Qu	estion:				THE V	
What is the effect & Stringlength on the come so						
B. Independent Variable						
Levels	C.	D.	E.	F.	G.	
	20 cm	40 cm	(00 cm	80 Cm	100 cm	
Trials	Н.	(Same as H)	(Same as H)	(Same as H)	(Same as H)	
I. Dependent Variable fine to Complete me Sully (3)						
J. ONLY ONE Constant/Controlled Variable						
type 7	Strong	1 meng	not 9 pe	enderbein		
Same ?	derson)	recordi	by San	e# trie	ila	

Question 24

Use the data table to create a LINE GRAPH. ****On the form, please type "ON PAPER"***

Data Table

String Length (cm)	Time to Complete One Swing (s)
20	0.9
40	1.3
60	1.6
80	1.8
100	2.0

Don't Forget!

- Label your X axis and Y axis
- Use the numbers in the data table to create a scale for your graph.
- Write your title: The effect of IV on DV
- Put units where they belong!
- Plot your points, then connect them with a line.

Title: The effect of String length on time to complete -Should moder doctor tailot The same of the services of th