Experiment 2:	Fruit Works?	Date:
Objective:		
Hypothesis:		
Materials:		
slinky paper clips(2)		
apple		
lemon or lime banana		
ruler		
balance or food	scale.	

## Experiment:

- 1. Try to decide, just by "weighing" each piece of fruit in your hands which piece will do the most work and which piece will do the least work on the spring.
- 2. Write down your prediction stated as the Hypothesis.
- 3. Now weigh each piece of fruit on the balance or food scale.
- 4. Record the weights on the chart following.

Fruit	Weight (oz. or g.)

- 5. Next, take the paper clip and stretch one side out to make a small hook.
- 6. Place the hook in one of the pieces of fruit.
- 7. Hold the slinky up to the level of your chest and allow 10 to 15 coils to exist below. You will have to hold most of the slinky in your hand.
- 8. Measure the distance from the floor to the bottom of the slinky with the tape measure. Record your result below.

Distance from floor to slink	/	

- 9. Now place the piece of fruit that has the hook in it on the slinky and allow the slinky to be pulled out by the fruit.
- 10. Measure from the end of the slinky to the floor with the tape measure and record your results below.
- 11. Repeat with each piece of fruit. Record your results below.

Fruit	Distance from floo	or to slinky	Distance extended
		•	
you measure	•	e. This gives y	from each of the distances ou the distance each piece
12. Calculate the chart be	•	f fruit has don	e. Record your answers in
	Fruit		Work
	d happen if you put to tion and record your o	•	ruit on the slinky? Test
(2 )Fruit			Work

PHYSICS LEVEL I : LABORATORY MANUAL

Review	
Define the following	terms:
force	
work -	
energy	
Circle the correct ar	iswer:
Which object h	as the greater gravitational force:
a car the n	ana or a bowling ball or a bicycle noon or the earth earth or the sun
Answer the following	questions:
Is a bowling bal How much work	g on a shelf doing work?  Il accelerating towards the pins doing work?  is done if you lifted a 3 lb box 2 feet?  is done if you lifted a 2 lb box 3 feet?
List some forms of e	nergy:
Challenge:	

Do you think if we could get every person on the earth to jump all at once we could move the earth? Why or why not? Can you do a rough calculation?