## 3:41 Penny Lever Lab

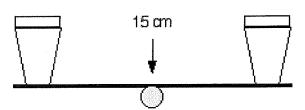
Using the supplies listed below, build a small lever like the one pictured. Use the ruler as a lever, the pencil as a fulcrum, and tape the cups to the ends to hold the pennies. Test the lever with pennies following the instructions given.

Supplies Needed:

- 2 small paper cups
- one ruler (30 cm long)
- one pencil
- some tape
- about 60 pennies

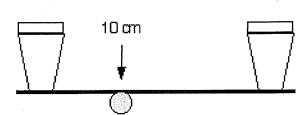
## Lever One:

Build Lever One according to the diagram shown. Place the pencil fulcrum at the 15 cm mark on the ruler. Tape the pencil to the ruler if needed to keep it from sliding. Place 30 pennies in the left side cup. See how many pennies need to be added to the right side to get the lever to tip, and lift the left side cup. Record your results on the data table provided.



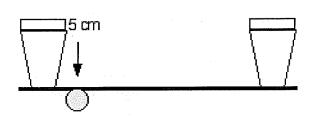
## Lever Two:

Build Lever Two in the same way. Place the pencil fulcrum at the 10 cm mark on the ruler. Place 30 pennies in the left side cup. See how many pennies need to be added to the right side to get the lever to tip, and lift the left side cup. Record your results on the data table provided.



## Lever Three:

Build Lever Three in the same way. Place the pencil fulcrum at the 5 cm mark on the ruler. Place 30 pennies in the left side cup. See how many pennies need to be added to the right side to get the lever to tip, and lift the left side cup. Record your results on the data table provided.



Name	· · · · · · · · · · · · · · · · · · ·	Pei	riodL	Date
3:41 Penny	Lever Lab			
Record the da	nta from the three lev	ers into the table belo	w:	
the right arm		put force is the numb		tance is the length of while the input force
	Output Distance	Input Distance	Output Force	Input Force
Lever One				
Lever Two				
Lever Three				
	e data in the table contents the input force needed		relationship between	n the location of the
What do you ruler?	think would happen	if you were to redo	this lab using a met	er stick instead of a