Name	Period	Date
La	ab 101: Candle La	nb
The purpose of this lab is to practice	using the scientific method	
1. The first step of the scientific meth	nod is to make a	that leads
to a		
Look at the equipment you have been as quantitative ( N ) or qualitative ( L	_	s. Label each of your observations
•		
•		
•		
•		
•		
Write a question related to extinguishi	ing the flame of the candle u	sing the equipment provided
2. The second step of the scientific myour question	nethod is to form a	to answer
What are three things a good hypothes	sis must do?	
1.		
2.		
3.		
Write a hypothesis related to your que	estion in step one	
3. The third step of the scientific met	hod is to	the hypothesis
by		

## Define Variable.

Use	e controlled, manipulated	and <i>responding</i> to fill in the blanks	
The	e	_ variable is changed by the scientist	
The		variable changes as a result of the experiment	
Eve	erything else must be a _	variable	
res		lure to test your hypothesis. Identify the manipulated variable, the controlled variables. Perform your experiment. Design a chart, graph, ur data.	
	Experimental Proced	are:	
	1.		
	2.		
	3.		
	4.		
	5.		
	Collected Data:		
4.	The final step in the scien of the experiment.	ntific method is to make a based on the results	

## Use your notes and candle lab observations as you answer the following questions

## Observations vs. Conclusions

In most labs, you will make observations and conclusions. What is the difference?

For ea	ch of the following statements, write "O" if it is an observation and "C" if it is a conclusion.		
a.	The temperature outside is 95 °F		
b.	I see smoke coming from the engine so the car must be overheating		
c.	The eggs stink		
d.	The eggs are rotten		
e.	Vinegar tastes sour so it must be an acid		
f.	The coin is copper colored		
g.	Because it is copper-colored, the coin is a penny		
h.	It looks like it is going to rain		
Now,	write two observations and two conclusions of your own from your lab		
•	Observations:		
	1).		
	2).		
•	Conclusions:		
	1).		
	2).		

Do you understand what happens when a candle burns? Answer the following questions as best yo can, using your general knowledge.
1). What is produced when a candle burns?
2). What is necessary for a candle to burn?
3). What is the purpose of the candle wick?
5). What is the purpose of the candle wick:
4). As a candle burns, it becomes shorter, Where does the wax go?
For each of the following statements, write "L" for qualitative and "N" for quantitative
a The box is brown
b The box is 12 cm long
c The box is 12 cm long
d The box has red words written on the side
e The box is 8 cm wide
f The box has a bumpy interior
g The box has a lid
h The box is 4 cm tall

b