

Black Box Experiment Follow-Up

Reflection Questions/Homework

****Think carefully about each of these questions & answer them as thoroughly as possible.***

- 1.) What did your group conclude about the contents of the box?

- 2.) Could you classify your conclusion as a hypothesis or a theory? Why?

- 3.) Did each lab conduct their investigation in the same manner? What differed? What was the same?

- 4.) Did each lab reach precisely the same conclusions as to the contents of the Box? Why or why not? What may have influenced each group's characterizations?

- 5.) Keeping in mind that you have not made any direct (visual) observations, how confident are you of your characterization? What implications might this have for the nature of scientific evidence (i.e., what is the legitimacy of inference)?