



Sc!ence

Name: ()
Class:	
Date: / /	

The Scientific Method – Experimental Design

Instructions

Design an experiment to determine whether honey bees are attracted more towards regular cola or diet cola.

1.	What is your <i>hypothesis</i> for this experiment?
2.	What assumptions (if any) are you making about this experiment?
3.	What is the <i>independent</i> variable (input variable) for this experiment?
4.	What is the <i>dependent</i> variable (output variable) for this experiment?
5.	What is your <i>control</i> variable for this experiment?
6.	What variables need to be kept <i>constant</i> throughout this experiment?
7.	What do you need to <i>measure</i> during this experiment (what <i>data / evidence</i> do you need to collect)?

8.	How will you <i>interpret</i> the data that you obtain from this experiment in order to check whether your hypothesis is right or wrong?
9.	How will you clearly <i>present / communicate</i> the data that you obtain from this experiment?
10.	What apparatus will you need in order to complete this experiment?
11.	Draw a diagram of this experiment.
12.	Write a clear step-by-step description of this experiment.