Na	me	Date	Per	Variables Worksheet
	experiment that has all variables controlled exc ST. This ensures that the results of the experime		lled a CONTROLLE	
	rections: Read the following desc estions that follow.	cription of an exper	iment and the	n answer the
tes see	ccientist wants to investigate wheth ted is: " <i>Plants require sunlight to</i> edlings in the sun and another tray e seedlings were watered and after	grow." The scientis of sunflower seedling	t placed one tra gs in a cupboar	ay of sunflower rd in the laboratory.
	Condition A: sunflower seedlings in the	sun Conditio	on B: Sunflower Se	eedlings in a Cupboard
1.	Which variable/factor is being inve	stigated (and therefo	ore changed)?	
2.	Which variables/factors are being	controlled? (There ar	re a number of	them.)
	a	d		_
	b	e		
	c	f		_
3.	Explain how you would keep two cexperiment. Variable 1:		·	
	Variable 2:			
4.	Another term for controlling the va	riables in an experim	ent is "fair	

	Identifying Variables in an Experiment The factor or variable being investigated (or tested) is called the INDEPENDENT variable. The factor or variable being measured is called the DEPENDENT variable (because it is dependent on the experiment).	periment).			
Directions: For each of the following hypotheses, identify the independent variable, the dependent variable, and two variables that would need to be controlled (constants) in order to perform a fair test (controlled experiment).					
1.	Fertilizer in soil increases flower production.				
	Independent Variable:				
	Dependent Variable:				
	Two Controlled Variables:				
2.	Medicine A will reduce the incidence of headaches.				
	Independent Variable:				
	Dependent Variable:				
	Two Controlled Variables:				
3.	If zinc tablets are taken, then the number of colds per year is reduced. Independent Variable: Dependent Variable: Two Controlled Variables:				
4.	If water is present, then the number of bacteria in garbage bins increases. Independent Variable: Dependent Variable: Two Controlled Variables:				
5.	Girls throw softballs further than boys. Independent Variable: Dependent Variable: Two Controlled Variables:				

Name _____ Date ____ Per ___ Variables Worksheet