## **Hypothesis Writing Practice**

	fine the following words and concepts related to the scientific method  Constants:			
2.	Control Group:			
3.	Dependent Variable:			
4.	Experimental Groups:			
5.	Hypothesis:			
6.	Independent Variable:			
7.	Trials:			
8.	Variables:			
and Exa If d Ma	ite a Question for each of the following hypothesis. Identify the manipulated (independent) variable difference responding (dependent) variable for each hypothesis.  Imple: Ilogs are fed treats, then they will bark less. Inipulated/Independent variable: Treats fed to dogs. Is sponding/Dependent variable: Less barking.			
9.	What effect does high temperature have on radish germination?			
	Independent variable: Dependent variable:			
10.	What effect does studying with music have on student test scores?			
	Independent variable: Dependent variable:			
11.	What effect does food color have on the amount of food fish eat?			
	Independent variable: Dependent variable:			

12.	What effect does light have on plant growth?	
	Independent variable:	
13.	What effect does smiling have on teacher giving homework?	
	Independent variable:	
14.	If plants are watered, then growth height will increase.	
	Independent variable: Dependent variable:	
15.	If chocolate is given to teacher, then amount of homework will decrease	se
	Independent variable: Dependent variable:	
16.	If trees have leaves, then bird nests will increase.	
	Independent variable:	
17.	If acid rain is in water, then fish population will increase.	
	Independent variable: Dependent variable:	
18.	If calcium is given, then bone strength will increase.	
	Independent variable:	
	actice: Write a testable hypothesis in ifthenformat for each of t ntify the variable, control group and experimental group.	the following research problem
19.	Cigarette smoke increases the risk of lung cancer.  Hypothesis:	
	Independent Variable  Dependent Variable  Control Group  Experimental Group	
	Experimental Group	

20	ting breakfast increases performance in school.  ypothesis:				
	Independent Variable Dependent Variable Control Group Experimental Group				
Underline the IV (what is the experimenter changing) and circle the DV (what is being measured) and then write your hypothesis in an "If, then" format.					
1.	Can reading small print cause a headache?  Hypothesis:				
2.	Does the amount of iron in the water affect plant growth?  Hypothesis:				
3.	Can plant growth be increased by increasing the brightness of the light?  Hypothesis:				
4.	Will toddlers grow taller if they drink more milk?  Hypothesis:				
5.	Will being in the sun too long without sunscreen cause skin cancer?  Hypothesis:				
6.	Will the apples be sweeter when the tree gets enough water?  Hypothesis:				
7.	Will test scores increase if studying is done every day?  Hypothesis:				
8.	Will mushroom grow more if the moisture is increased?  Hypothesis:				
9.	Does consuming too much salt cause high blood pressure?  Hypothesis:				

10. Will brushing your teeth for 10 minutes a day prevent cavities?  Hypothesis:					
Take the following inferences and turn them into formal hypotheses.					
• Y	Your hypothesis should: make sense to anyone who can read it be something that can be tested answer the Problem				
Example: Increased sleep my cause higher grades. Independent variable: amount of sleep Dependent variable: grade percent average Formal hypothesis: If the amount of sleep is increased then the grade percent average will increase because sleep allows students to be alert and focused during class.					
1.	Chocolate may cause pimples     Independent variable: Dep     Formal hypothesis:				
2.	2. Salt in soil may affect plant growth. Independent variable: Dep Formal hypothesis:				
3.	3. Plant growth may be affected by the color of the light. Independent variable: Dependent variable: Formal hypothesis:				
4.	4. Bacterial growth may be affected by temperature. Independent variable: Dep Formal hypothesis:	endent variable:			
5.	5. Ultraviolet light may cause skin cancer. Independent variable: Dep Formal hypothesis:	endent variable:			
6.	5. Temperature may cause leaves to change color. Independent variable: Dep Formal hypothesis:	endent variable:			