Name:	Date:	Hour:
Exper	imental Variables	Worksheet
For the following experiments, define control group. If the control variable is		le, (DV) dependent variable, and (CG), le controlled variable.
1) The number of flowers on different months.	t breeds of rose bushes in a gr	reenhouse is recorded every week for two
IV		
DV		
CG		
milliliters. The second pea plant recei	ives 200 milliliters. The third vater; the plant only receives	e-week period. First pea plant receives 400 pea plant receives 100 milliliters. The fourth natural ways of receiving water. The height
DV		
CG		
decide to try to get rid of this slime by	y adding lemonade juice. You hower with water. After 3 day	s covered in a strange green slime. You a spray half of the shower with lemonade ys of "treatment" there is no change in the
IV		
DV		
CG		
4) Three redwood trees are kept at diffoutside to normal conditions. Height of		a greenhouse for 12 weeks. One tree is left week.
IV		
DV		

six week study. T	The fish's body fat is recorded.
IV	
DV	
CG	
6) Tulips flowers	are counted when grown in experimental types of climates.
IV	
DV	
CG	
7) You give three height is measure	e different concentrations of salt water to sunflower plant clones. After a two-week period, the ed.
IV	
DV	
CG	
get rid of the clot	clean your bedroom. You notice that your floor is covered with clothes. You decide to try to hes by throwing the clothes into the air. You throw clothes from half of the room into the ter half of the room straight up. After 30 minutes of "cleaning", the floor of the room is now
IV	
DV	
CG	
9) What would yo	ou do to make the experiment in question 8 better?

5) One tank of gold fish is feed once a day, a second tank twice a day, and a third tank four times a day during a

Name:	KEY	Date:	TOTAL POINTS
	Expe	rimental Variables Worksl	+ 25 nts
		e the (IV) independent variable, (DV) depe is not given, suggest a possible controlled	
1) The months		nt breeds of rose bushes in a greenhouse is	recorded every week for two
	IV Different breeds	of rose bushes	
	DV_Number of flowe	rs	
	None cited – Ans	wers may vary.	
millilite pea plai	ers. The second pea plant rece	ent amounts of water for a three-week periodives 200 milliliters. The third pea plant recewater; the plant only receives natural ways	ceives 100 milliliters. The fourth
	IV <u>Pea Plant clones</u>		
	DV <u>Height of pea pla</u>		
	CG Fourth pea plant	t (natural ways of recv'ing wat	er).
decide t	to try to get rid of this slime b	You notice that the shower is covered in a by adding lemonade juice. You spray half of shower with water. After 3 days of "treatment side of the shower.	of the shower with lemonade
	IV_ Lemonade juice	& water	
	Amount of strang	ge green slime	
	Water.		

4) Three redwood trees are kept at different humidity levels inside a greenhouse for 12 weeks. One tree is left outside to normal conditions. Height of the tree is measured once a week.

IV 3 redwood trees @ different humidities & 1 tree outside

DV Height of the tree

CG Tree left outside to normal conditions.

- 5) One tank of gold fish is feed once a day, a second tank twice a day, and a third tank four times a day during a six week study. The fish's body fat is recorded.
 - Fish in different tanks (T1 once, T2 twice, T3 four times)

 DV Fish's body fat

 CG None cited Answers may vary.
- 6) Tulips flowers are counted when grown in experimental types of climates.
 - $\begin{array}{c} {\hbox{\bf IV}} & {\hbox{\bf Different experimen}} {\hbox{\bf tal types of climates}} \\ {\hbox{\bf DV}} & {\hbox{\bf Number of tulip flowers}} \end{array}$

 - **CG** None cited Answers may vary.
- 7) You give three different concentrations of salt water to sunflower plant clones. After a two-week period, the height is measured.
 - IV_Different concentrations of salt water
 - DV Height of sunflower plant clones
 - CG None cited Answers may vary.
- 8) You decide to clean your bedroom. You notice that your floor is covered with clothes. You decide to try to get rid of the clothes by throwing the clothes into the air. You throw clothes from half of the room into the closet and the other half of the room straight up. After 30 minutes of "cleaning", the floor of the room is now visible.
 - IV Throwing clothes in closet & throwing up in air
 - **DV** Amount of clothes on floor
 - **CG** None cited Answers may vary.
- 9) What would you do to make the experiment in question 8 better?

Answers may vary. 1pt