Name:	
Date:	Class Period:

## **Experimental Variables Worksheet**

<u>Directions</u>: Determine the Independent Variables (IV), Dependent Variables (DV), Constants, and Controls from the following science experiments.

- Independent Variable (IV): What the experimenter changes during the experiment.
- **Dependent Variable (DV)**: What the experimenter measures.
- Constants: Things that are kept the same.
- Control: Thing to compare against to see if Independent Variable has any effect.

1)	The number of flowers on	different breed	s of bushe	es in a green	house is record	ded every wee	k for two
	months.						

IV:
DV:
Constants:
Control: this one's tough - perhaps one of the breeds is the "standard"

2) You give four sunflowers different watering with either pure water or different concentrations of salt solutions. After a two-week period, the height is measured.

IV:	
DV:	
Constants:	
Control:	

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

IV:	
DV:	
Constants:	
Control:	

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4)	Pea plant clones are given different amounts of water for a three-week milliliters. Second pea plant receives 200 milliliters. Third pea plant is plant does not receive any extra water; the plant only receives natural of the pea plants is recorded daily.	receives 100 milliliters. Fourth pea
IV	V:	
	DV:	
Co	Constants:	
Co	Control:	
5)	5) One tank of goldfish is fed the normal amount of food, which is once	a day; a second tank is fed twice a
,	day; and a third tank is fed four times a day during a six-week study.	
IV	IV:	
DV	OV:	
Co	Constants:	
Co	Control:	
6)	You decide to clean the bathroom. You notice that the shower is cover decide to try to get rid of this slime by adding lemonade juice. You spinice and spray the other half of the shower with water. After 3 days of the appearance of the green slime on either side of the shower.	oray half of the shower with lemonade
IV	V:	
DV	OV:	
	Constants:	
Co	Control:	
7)	7) You decide to clean your bedroom. You notice that your floor is cover get rid of the clothes by throwing them into the air. You throw clothe and 1/3 of the room straight up into the air, and the last 1/3 of the room After 30 minutes of "cleaning", the floor of the room is now visible.	s from 1/3 of the room into the closet
IV	V:	
DV	DV:	
Co	Constants:	
Co	Control:	