Name:

Class:

**Identifying Variables Worksheet (CD)**

*For the following experiments identify the IDK for each experiment.*

**IV- Independent Variable**- changed or manipulated by scientist. The value of this variable is usually known before the experiment begins

**DV- Dependent Variable**- Variable that may or may not change in response to a changed independent variable. The value that is recorded as data during the experiment.

**K- Constant**: Elements of an experiment that do not change, but if they did could affect the outcome of an experiment. Kept the same to prevent invalidating the experiment.

1. One group of plants is given only water and the four other groups are given increasing amounts of acidic water to simulate acid rain. The number of living plants is recorded after six months.

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| **IV:** |  |
| **DV:** |  |
| **K:** |  |

1. Salmon lay their eggs in streams between rocks that protects them from being swept downstream by water currents. The rock size in four rivers is measured before breeding season. After breeding season the number of fish eggs remaining after 2weeks is counted.

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| **IV:** |  |
| **DV:** |  |
| **K:** |  |

1. Three redwood trees are kept at different humidity levels inside a greenhouse for 12 weeks. One tree is left outside in normal conditions. The tree height is measured once a week.

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| **IV:** |  |
| **DV:** |  |
| **K:** |  |

1. Chlorine is added in different amounts to ten different cups full of bacteria solution (the first cup with no chlorine and increasing amounts in the other cups). The amount of bacteria that is killed is measured after one hour.

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| **IV:** |  |
| **DV:** |  |
| **K:** |  |