Poster Project: Independent vs. Dependent Variables

**WHO:** You (and everybody else).

**WHAT:** Make a poster (8.5" by 11" or bigger) that uses pictures to show the difference between a dependent and independent variable.

**HOW:** Find or think up **two** example of a dependent and independent variable (use the list below to start, you have to find one other than the example I list).  Your posters must have: 2 pictures, one to illustrate each variable (drawn, cut out from newspaper or magazines, or printed out from the Internet), a title, labels for "dependent variable" and "independent variable", and a caption that says:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ depends on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

*Your dependent variable*                               *your independent variable*

**WHY:** To show mastery of dependent and independent variables

**WHEN:** Due Tuesday, 04/04

**EXAMPLES**: *(example poster on back)*

|  |  |
| --- | --- |
| **DEPENDENT** | **INDEPENDENT** |
| Cell phone bill | Minutes used |
| How far you can drive | The amount of gas you have |
| Your Six Weeks grade | The number of assignments you turned in |
| How much money you earn | The hours you work |
| Cost of a speeding ticket | How many miles you went over the speed limit |
| Time it takes to drive somewhere | How fast you drive |
| Result of a football game | Who scores more points |
| How much air conditioning you use | Temperature |
| Total calories and fat | Number of What a burgers |
| Opportunities for high-paying jobs | How much education you have |

**Grading Rubric:**

1. **Following directions**: Did they include all of the elements required (pictures/drawings, explanation, labels)?
2. **Clarity**: Does their example make sense and is easy for others students to understand?
3. **Effort**: Did the student put in time and effort into making the poster colorful, attention grabbing, and easy to read and see from afar?

|  |  |
| --- | --- |
| **Independent** | **Dependent** |
| Cause | Effect |
| Before | After |
| Input | Output |
| **What you do** | **What happens** |

**Poster Example: you can show your work on a regular print paper, not have to be a big poster.**

 Independent Variable VS Dependent Variable



Dependent Variable: Cell phone Bill Independent Variable: How many minutes used

Your cell phone bill depends on how many minutes you used per month. The more minutes you used, the more money you needed to pay for your cell phone bill.