

Long-term Project Research Part II

Biology

Independent and Dependent Variables

The next step in your long-term project is to identify and research the independent and dependent variables in your study. An independent variable is the aspect of your project that you have complete control over and will be changing in order to see what effect it has. The dependent variable is the aspect of your project that you are hoping to see change as a result of your manipulation of the independent variable.

For example, imagine that your question is “what is the effect of radioactive soil on plant growth?”. In order to carry out this study, you would probably need to gather some soil with different levels of radioactivity. Thus, **soil radioactivity** would be your independent variable. You would also need to measure the plant growth that was occurring in your various soils. Thus, **plant growth** would be your dependent variable.

Today, you need to identify the independent and dependent variables in your study. Then, you and your partner need to find at least FIVE websites for each variable that you can use for background research.

Submit your work in an e-mail. Include in the body of the e-mail each variable along with the five websites you have found. The subject of your e-mail should have your class period, both partners’ full names, and “research part II”. (For example, “per. 4 dan bregar toni taylor research part II”.) Send your e-mail to dan.bregar@corvallis.k12.or.us