

Project 1: Proposal



The purpose of this project is to explore the relationship between two variables within a single species of Pokémon®. Variables are defined as any value that differs between individual Pokémon®. In this proposal you should choose two variables you are going to investigate and state a hypothesis (educated guess) about their relationship. Your proposal should be 3-5 paragraphs in length and include the following components.

A) A discussion of your choice of variables. This should include a clear statement of hypothesis.

B) Your data collection plan.

In this case, that means identifying how and when you will collect a large enough sample of a single species. You will need at least 20 of the same species of Pokémon®. You should include a brief discussion of how you will overcome any challenges.

C) A statement of what you hope to learn from your experiment.

Some of examples of variable pairs: HP and CP. Number of attempts to catch and total IV. Attack stat and weight. CP and stardust needed to evolve. Type of ball used in the catch and CP. Do you think one is a function of the other? Could you draw an interesting Venn Diagram? Could you make a graph?

Grading

I am including the grading rubric to help you get a sense for this first proposal what to expect. The proposal is worth a total of 10 points.

2 Points are for clarity.

4 Points are for the proposed question and hypothesis.

0-1 Points	Does not contain a clear question or hypothesis.
2-3 Points	Underdeveloped hypothesis or unclear that hypothesis can be tested with the proposed variables.
4 Points	Clearly identifies two variables and states a testable hypothesis.

4 Points are the experimental design and data collection plan

0-1 Points	Does not describe a clear plan for data collection or organization
2-3 Points	Lack of detail in design. Unclear that the plan can be carried out.
4 Points	Clear and attainable experimental design which addresses stated hypothesis.