

Extra Credit:

John read that the biorhythms of organisms influence metabolism of drugs; thus, prescribing lower concentrations at peak times can minimize side effects of drugs. Generally, Brand X weed killer is more effective in higher concentrations and when applied early in the day. Because the weed killer acts by interfering with water uptake during photosynthesis, John hypothesized that concentration and time of application would interact to determine maximum effectiveness. John subdivided a field into 15 plots, each containing 5 grass plants. He applied 10 percent, 20 percent and 40 percent of the recommended dose at 5 times (8am, 10am, 12pm, 2pm, and 4pm). After two weeks, the numbers of dead plants per plot were recorded.

Write a hypothesis in the correct format for this lab. Focus will be put on your reasoning, so be sure to explain WHY you made the hypothesis you made.