

Biology I Fall Semester Final Exam Study Guide

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Cells, Microscopes and Scientific Method

1. In an experiment, what is:
 - a. The independent variable: what is being tested or changed on purpose
 - b. The dependent variable: what is being measured
 - c. The control: what the results of the test is compared to; the normal standard
 - d. A constant: part of the experiments that stays the same

Look at the information below:

Independent Project

What time of day are you most alert?

Assumption: The ability to sort playing cards is an indication of alertness.

Procedure:

1. Shuffle a deck of playing cards four times
2. Time how long it takes to sort the cards into the four suits
3. Repeat the activity at the same times for five days

Data

Time of Day	Average Sorting Time (s)
8:00 a.m.	130
12:00 noon	106
4:00 P.M.	122
8:00 P.M.	127

2. What is the hypothesis for this experiment?
 - a. If you shuffle the cards more times, then you are probably alert.
 - b. If you can sort playing cards, then you are probably alert.
 - c. If it is early in the morning, then you are alert.
3. Which of the following conclusions is supported by the data shown above?
 - a. Alertness is directly related to the level of distraction.
 - b. Shuffling methods can affect alertness.
 - c. Alertness levels vary during the day.
 - d. Long periods of rest improve alertness.
4. Name a constant for this experiment: cards, times shuffled

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