

NYS Making Connections Lab Questions

1. A non-extension of the lab activity: Making Connections, a biology teacher asked students to transform variable *x* rather than *y* so that *x* would affect heart rate. The students hypothesized that eating a lunch high in protein would decrease heart rates. They recorded resting heart rates of 20 students, had them eat high protein meals, and then recorded their heart rates again. The heart rates of 15 students were lower while the heart rate of 5 students were higher after lunch.

The best explanation for the observation that the largest rates of β students were higher after Day 3 is

- A) the least rate of female student (are not affected by a high protein meal).

B) the students all participated in physical education class immediately before lunch.

C) the students all had varying physical fitness level (and consumed different amounts of protein).

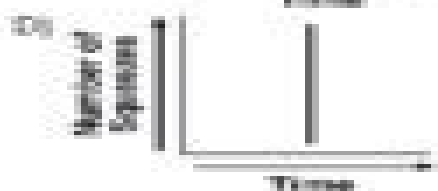
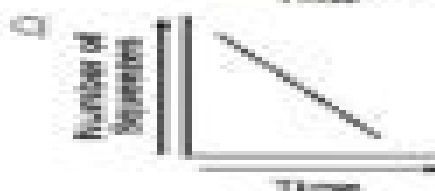
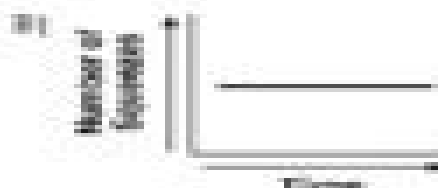
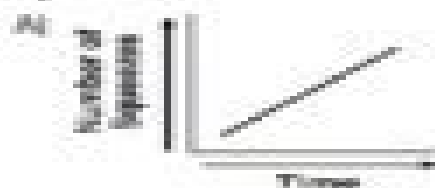
D) the students were all the same gender and age.
- In the lab activity Making Connections, an experiment was designed to test the effect of exercise on the ability to open a clothespin. The number of times the clothespin was opened served as the

A) independent variable.

B) dependent variable.

C) hypothesis.

D) control.
- A student is opening and closing clothespins as part of a lab activity. The student begins to experience muscle fatigue, and the rate at which the student is opening and closing the clothespins slows. Which graph best represents the relationship between a time and number of clothespin opened?



4. During periods of vigorous physical activity, a person's breathing and heart rates increase. This enables the cells of the body to perform more efficiently because it helps the cells to
- A) remove waste products faster B) store excess glucose in muscles
C) reduce the amount of ATP produced D) convert more oxygen to glucose
5. A person's pulse rate generally goes down while sleeping. One reason for this decrease is
- A) the body is producing more carbon dioxide when a person is sleeping
B) a person is not using energy while sleeping
C) a person requires less oxygen when sleeping
D) the body is using more nutrients while asleep

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