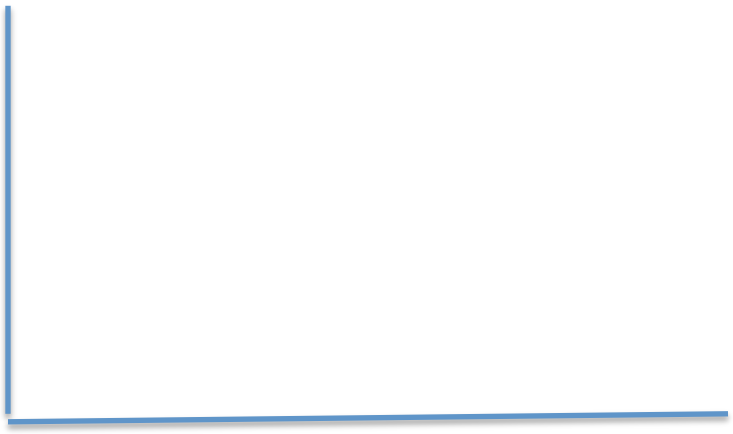
Unit 1: Review Sheet

Safety Questions: Write one rule about each of these types of lab safety:
Fire and Flammables
Glassware
Chemicals and Samples
The role of the Instructor

Define the following terms, using your pretest would be extremely helpful.

activation energy	enzyme	organism
biology	independent variable	polymer
biomolecules	lipid	products
bond	metabolism	protein
carbohydrate	molecule	qualitative data
carbon based life	monomer	quantitative data
cell	nucleic acid	reactants
chemical reaction	observation	
dependent variable		

Graphing portions: Draw a graph showing the effect of temperature on an enzyme. Be sure to label each axis and give your graph a title.



Is It Alive Questions:

1. Name 4 characteristics of Living Things
2. Which characteristic do you think is the most essential to an organism being alive? Why?

Qualitative vs Quantitative observations

1. Describe your desk using
    a. 2 **qualitative observations**
    b. 2 **quantitative observations.**

Which type of observations is most important/essential to scientists?

Independent Variable/Dependent Variable

J-LO loves drinking coffee in the morning to wake up. she is convinced that if she does not have coffee she will be tired in class. develop and experiment to determine if she really needs caffeine to be alert in the mornings.

1. Write a hypothesis for this scenario using the "if …. then…because" sentence structure
2. List 4 variables that could affect how a person reacts to caffeine?
3. There are 500 people in your study, how will you use/separate them?
4. Which beverage would you choose as a control in this experiment? explain

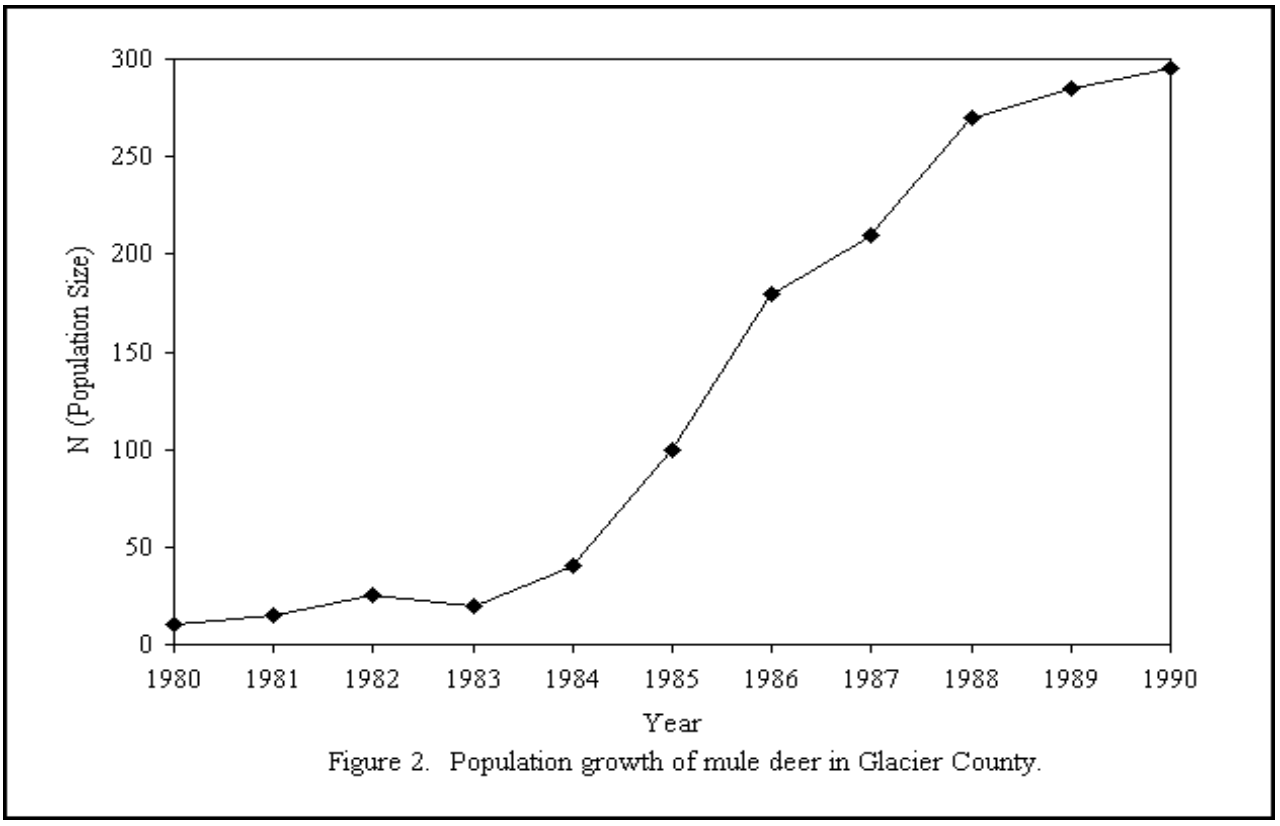


Figure 2. Population growth of mule deer in Glacier County.

Graph questions

1. What happened to the population of mule deer between 1984 and 1986?
2. Why did this scientist use a line graph?
3. Write a title for this graph: