

Chesapeake Public Schools Biology SOL Review

Created by Tiffany Sykes and Stevie Carney from Crossfield High School

Lab 1

SCIENTIFIC METHOD

1. Design an experiment.
2. Ask a question.
3. Create a hypothesis.
4. Design a controlled experiment.
5. Record and analyze data.
6. Draw a conclusion.

Types of Experiments

- Measurements of individual definitions.
- No measurements at all
- Multiple independent variables
- No controlled variables
- Scientific problem is narrowly defined

METRIC UNITS	
Measurement	Unit
Temperature	Celsius
Volume	Liter
Mass	Gram
Distance	Meter

Scientific Studies that have been done (Scientific method connections)

- a. Accuracy
- b. Precision
- c. Spontaneous Generation

Generate the Question

1. If the high school objective on a microscope is 100x and the ocular is 15x, what is the total magnification of high power?
2. Aurora is working on a science project. "Bananas from Africa, developed their growth" her family is going to volunteer for the experiment. Describe how she should perform the experiment and identify the control group, independent and dependent variables.



- a. What dependent variable is the student measuring?
- b. What independent variable is the student measuring?

Scientific Investigation

Graphing	Independent variable on the X axis and dependent variable on the Y axis
Independent Variable	The variable that is changed or manipulated.
Dependent Variable	The variable that is changed as a result of the manipulated variable.
Control	The variable that remains the same in each and every trial.
Control	An experiment without variables.
Quantitative	Data recorded as a numerical value.
Qualitative	Data recorded that has a descriptive value (language)
Hypothesis	A proposed scientific explanation for a set of observations.
Theory	A set of statements or principles devised to explain a group of facts or phenomena, especially one that has been repeatedly tested or is widely accepted.
Law	A statement that describes invariable relationships among phenomena under a specified set of conditions.
Inference	An interpretation based on prior knowledge.
Prediction	A logical (often quantitative) statement about what will happen under specific conditions.

Lab 2



Microscopic view of a liver cell.



Microscopic view of a liver cell.

- 1. Explain structure-function relationships.
- 2. Identify unique structures of mitochondria.
- 3. Hypothesize.
- 4. Predict change.
- 5. Observe relationship of similar structures.
- 6. Analyze structure of different mitochondria.
- 7. Make a universal statement.

Microscopic View of Liver Cells

What do you see? How do you think the organelles are related to the function of the cell? How do you think the organelles are related to the function of the cell?

Microscopic view of a liver cell. How do you think the organelles are related to the function of the cell? How do you think the organelles are related to the function of the cell?

Organic independent variable and all inorganic dependent variable and it.

Properties of Water

High specific heat, low thermal conductivity, high heat of vaporization, low heat of fusion, high surface tension.

Temperature	Boiling	Freezing
100°C	100°C	0°C
37°C	100°C	0°C
0°C	100°C	0°C
-10°C	100°C	0°C

The pH Scale



"Acids are weak acids or bases that can react with strong acids or bases to produce salts, sudden changes in pH are not in the pH scale."

"Enzymes added to milk curdle or coagulate the milk. The pH of the milk is lowered, and the casein proteins are denatured, causing them to clump together and form curds."

Enzymes (proteins) are catalysts



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**David Karl Jemiolo, Garrett, Charles M.
Grisham**

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