

Chesapeake Public Schools Biology SOL Review

Created by Tiffany Sykes and Sherry Camacho from Grassfield High School

Slide 1

SCIENTIFIC PROCESS METHOD

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

Reasons of Experimental Error

Measurements off/round and definitions.

No measurements at all

Multiple independent variables

No controlled variables

Scientific problem is not clearly defined

SCIENTIFIC UNITS

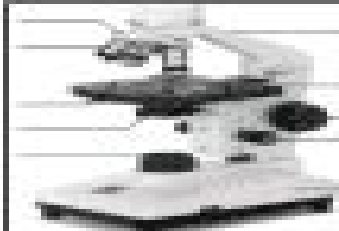
Measurement	Unit
Temperature	Celsius
Volume	Liter
Mass	Gram
Distance	Meter

Scientific Symbols that have been standard/modified over time.

- Atomicity
- Gas constant
- Spontaneous Generation

Generate the Questions

1. If the high power objective on a microscope is 40x and the ocular is 10x, what is the total magnification of high power?
2. Aurora is working on a project. "Bacterial cells affect the growth of our growth" her family is asking to volunteer for the experiment. Describe how she should perform the experiment and identify the control group, independent and dependent variables.



- a. What independent variable is on the x-axis?
- b. What independent variable is on the y-axis?

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.

Slide 2



40 Microscopic cell in a tissue sample



40 Microscopic cell in a tissue sample

Capable of carrying out all the functions of life.
 Capable of carrying out all the functions of life.
 40 — positive charge
 Capable of carrying out all the functions of life.
 Capable of carrying out all the functions of life.
 Capable of carrying out all the functions of life.

Properties of Water

High specific heat, surface tension, polarity, heat of vaporization, not heat dense than water, high boiling point.

Properties of Water

High specific heat, surface tension, polarity, heat of vaporization, not heat dense than water, high boiling point.

Monomers	Monomer	Monomer
Carbohydrate	Monosaccharide, including both D and L forms	Polysaccharide
Protein	Amino acid, including both D and L forms	Polypeptide
Nucleic acid	Nucleotide, including both D and L forms	Polynucleotide
Lipid	Fatty acid, including both D and L forms	Polylipid

The pH Scale

Acids, Neutral (pH 7), Bases
 The pH scale is a logarithmic scale that measures the concentration of hydrogen ions (H⁺) in a solution. The scale ranges from 0 to 14, with 7 being neutral. Values below 7 are acidic, and values above 7 are basic.

"Enzymes added to this solution will change the pH."

"pH and temperature can change the structure of proteins and alter their function." (30)

Food intake and the pH of the stomach is important for digestion. The pH of the stomach is around 1-2, which is highly acidic. This acidity is necessary for the breakdown of food and the activation of digestive enzymes.

Enzymes (proteins) are catalysts



Protista Sol Review Packet Answer Key

LL Leslie



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