

Chesapeake Public Schools Biology SOL Review

Created by Tiffany Sykes and Sherry Camacho from Greenfield 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.

SCIENTIFIC INVESTIGATION

Measurements, observations, and definitions.

No measurements at all

Multiple independent variables

No controlled variables

Scientific problem is not clearly defined

SCIENTIFIC UNITS

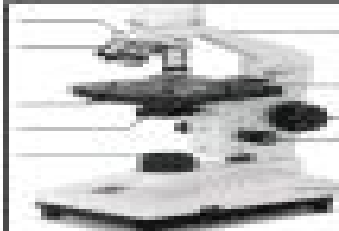
Measurement	Unit
Temperature	Celsius
Volume	Liter
Mass	Gram
Distance	Meter

Scientific theories that have been observed, verified, and tested.

- Atomicity
- Conservation
- 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.
Highly organized structure of molecules.
No organelles.
No positive charge.
Cellular volume of 100 micrometers.
Affinity for water.
Water is universal solvent.

Properties of Water

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

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

Measurement	Unit	Unit
Temperature	Celsius	Fahrenheit
Volume	Liter	Gallon
Mass	Gram	Pound
Distance	Meter	Foot

The Cell Cycle

The cell cycle is a series of events that result in the production of two daughter cells from one parent cell. The cycle is divided into four main phases: Prophase, Metaphase, Anaphase, and Telophase.

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Enzymes (proteins) are catalysts



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J Dewey



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