

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

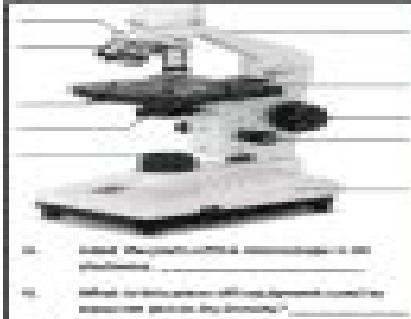
SCIENTIFIC UNITS	
Measurement	Unit
Temperature	Celsius
Volume	Liter
Mass	Gram
Distance	Meter

Scientific knowledge that has been tested and verified over time.

- Accuracy
- Precision
- 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.



1. What is the purpose of the microscope?
2. What is the purpose of the microscope?

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



Animal cell (no cell wall)



Plant cell (cell wall)

- Cytoplasm (organelles, nucleus, mitochondria)
- Nucleus (control center)
- Mitochondria (energy)
- Chloroplast (photosynthesis)
- Vacuole (storage)
- Cell wall (structure)



Animal cell (no cell wall)

Scientific knowledge that has been tested and verified over time.

Scientific knowledge that has been tested and verified over time.

The Cell Cycle

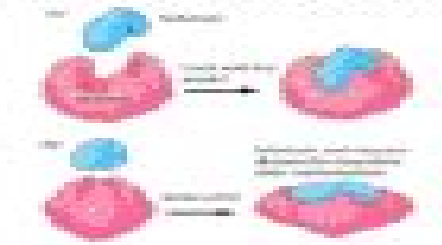


"Enzymes added to this mixture will change the pH."

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

Food (protein) and water (H₂O) are broken down into simple molecules (glucose, amino acids, etc.) which are then used in cellular respiration. The energy is transferred to the mitochondria where it is used to produce ATP.

Enzymes (proteins) are catalysts



Va Biology Sol Review Guide Answers

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