

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.

SCIENTIFIC INVESTIGATION

Measurements, observations, and definitions.

No measurements at all

Multiple independent variables

No controlled variables

Scientific problem is not clearly defined

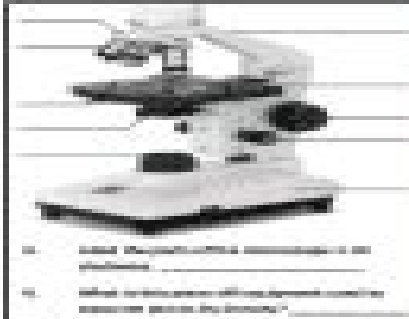
SCIENTIFIC UNITS	
Measurement	Unit
Temperature	Celsius
Volume	Liter
Mass	Gram
Distance	Meter

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



Cell structure diagram



Cell structure diagram

Cellular structure diagram
Cellular structure diagram
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Properties of Water

Water is a polar molecule. It has a partial positive charge on the hydrogen atoms and a partial negative charge on the oxygen atom. This polarity allows water to form hydrogen bonds, which are responsible for many of its unique properties.

Properties of Water

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

Property	Function	Structure
High specific heat	Helps maintain a stable internal temperature	Hydrogen bonds
Low thermal conductivity	Helps maintain a stable internal temperature	Hydrogen bonds
High heat of vaporization	Helps maintain a stable internal temperature	Hydrogen bonds
Low heat of fusion	Helps maintain a stable internal temperature	Hydrogen bonds
High surface tension	Helps maintain a stable internal temperature	Hydrogen bonds
High cohesion	Helps maintain a stable internal temperature	Hydrogen bonds

The pH Scale



"Acids are added to the solution to decrease the pH."

"Bases are added to the solution to increase the pH."

"The pH scale is a logarithmic scale. A change of one unit represents a tenfold change in the concentration of hydrogen ions."

Enzymes (proteins) are catalysts



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