

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

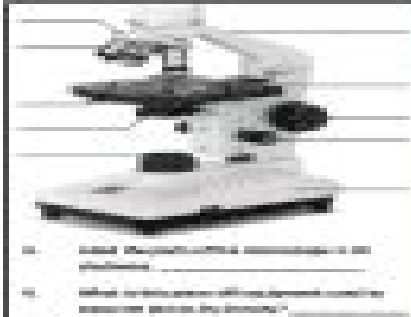
SCIENTIFIC UNITS	
Measurement	Unit
Temperature	Celsius
Volume	Liter
Mass	Gram
Distance	Meter

Scientific knowledge that has been tested, verified, and confirmed.

- 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 experiment?
2. What is the purpose of the experiment?

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



40x Magnification at a lower power



40x Magnification at a higher power

Cellular structure and function
The cell is the basic unit of structure and function.
The cell is the basic unit of structure and function.
The cell is the basic unit of structure and function.
The cell is the basic unit of structure and function.
The cell is the basic unit of structure and function.
The cell is the basic unit of structure and function.

Biological knowledge that has been tested, verified, and confirmed.

Biological knowledge that has been tested, verified, and confirmed.

Biological knowledge that has been tested, verified, and confirmed.

Properties of Water

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

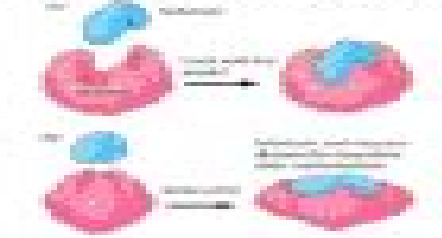
Measurement	Unit	Definition
Temperature	Celsius	1. The temperature of the water is 25°C.
Volume	Liter	1. The volume of the water is 1 liter.
Mass	Gram	1. The mass of the water is 1 gram.
Distance	Meter	1. The distance of the water is 1 meter.

The pH Scale

The pH scale is a measure of the acidity or basicity of a solution. It ranges from 0 to 14. A pH of 7 is neutral. A pH below 7 is acidic. A pH above 7 is basic.

"The pH scale is a measure of the acidity or basicity of a solution. It ranges from 0 to 14. A pH of 7 is neutral. A pH below 7 is acidic. A pH above 7 is basic."

Enzymes (proteins) are catalysts



"Enzymes are proteins that act as catalysts. They speed up chemical reactions without being consumed in the process. Enzymes are highly specific, meaning they only catalyze one type of reaction."



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