

Chesapeake Public Schools Biology SOL Review

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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

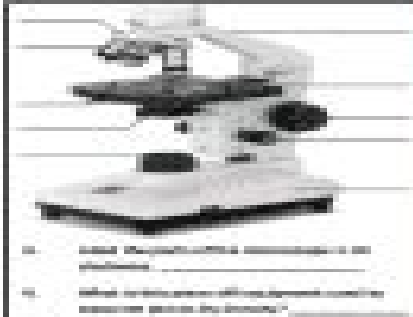
SCIENTIFIC UNITS	
Measurement	Unit
Temperature	Celsius
Volume	Liter
Mass	Gram
Distance	Meter

Scientific theories that have been observed, modified over time.

- 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.



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



40x Magnification at a lower power



40x Magnification at a higher power

Capable of carrying out most of its life processes
Highly complex structure of eukaryotic cells
No organelles
No positive charge
Cellular wall made of cellulose
Affiliated with other cells
Water is universal solvent

Regulation of the cell

Water affects the cell's structure, affecting the cell's ability to carry out its functions. The cell's ability to carry out its functions is affected by the cell's structure.

Microscopic structure of the cell
The cell is a small, round, clear structure with a thin, clear outer layer. The cell is surrounded by a thin, clear layer of water.

Organic compounds found in the cell
The cell is made up of organic compounds, including water, proteins, and carbohydrates.

Properties of Water

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

Temperature	Function	Structure
40°C	Not suitable for life	Not suitable for life
37°C	Not suitable for life	Not suitable for life
30°C	Not suitable for life	Not suitable for life
25°C	Not suitable for life	Not suitable for life
20°C	Not suitable for life	Not suitable for life
15°C	Not suitable for life	Not suitable for life
10°C	Not suitable for life	Not suitable for life
5°C	Not suitable for life	Not suitable for life
0°C	Not suitable for life	Not suitable for life

The pH Scale

Acids, Neutral (pH 7), Bases
The pH scale is a measure of the acidity or basicity of a solution. It ranges from 0 to 14, with 7 being neutral. Solutions with a pH below 7 are acidic, and solutions with a pH above 7 are basic.

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

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

Food intake and the structure of the cell
The cell is a small, round, clear structure with a thin, clear outer layer. The cell is surrounded by a thin, clear layer of water.

Enzymes (proteins) are catalysts



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