

Test 1 Study Guide

Microscope, Nature of Science, Nature of Life (Ch1)

Vocab

Nature of science

Science
Fact
Evidence
Hypothesis
Scientific theory
Law
Control

Microscope

Eye piece
Objective lens
Stage
Arm
Base
Diaphragm

Nature of life (chapter 1)

Spontaneous generation
Metabolism
Digestion
Respiration
Life span
Sexual reproduction
Asexual reproduction
Homeostasis
Element
Compound
Organic compound
Carbohydrate
Fat
Oil
Protein
Amino acid
Enzyme
Nucleic acid
DNA
RNA

Key Concepts

- When making observations, use all five senses, consider if something is conspicuously absent, be quantitative.
- Compare and contrast fact, hypothesis and theory.
- When performing an experiment, why is a control necessary?
- Can theories change? Why?
- How do you measure the size of an object under a microscope?
- How do you determine the total magnification?
- Explain the Redi experiment.
- Know the 6 characteristics of life. Be able to describe how an organism possesses these 6 characteristics.
- Know the 5 needs of living creatures.
- Know the difference between element and compound.
- Know the 4 types of organic compounds.