7-1 Scientific Inquiry

1. What is a microscope used for?
2. Compare Independent and dependent variables.
3. Define hypothesis.
4. Define Quantitative observation
5. Define qualitative observation
6. Which axis contains the independent variable?
7. Which axis contains the dependent variable?

7. L.3 Organization in Living systems

1. Define parts of a cell:
    a. Cytoplasm
    b. Nucleus
    c. Vacuole
    d. Chloroplasts
    e. Mitochondria
    f. Cell wall
    g. Cell membrane
2. Compare plant and animal cells
3. Compare spiral, bacillus, and cocci bacteria
4. Compare protists:
    a. Euglena
    b. Paramecium
    c. Amoeba
5. List levels of organization in order from simplest to most complex
6. List the major organs and functions of each system
    a. Circulatory
    b. Respiratory
    c. Digestive
    d. Excretory
    e. Nervous
    f. Musculoskeletal

7. L.4 Inheritance and Variation of traits

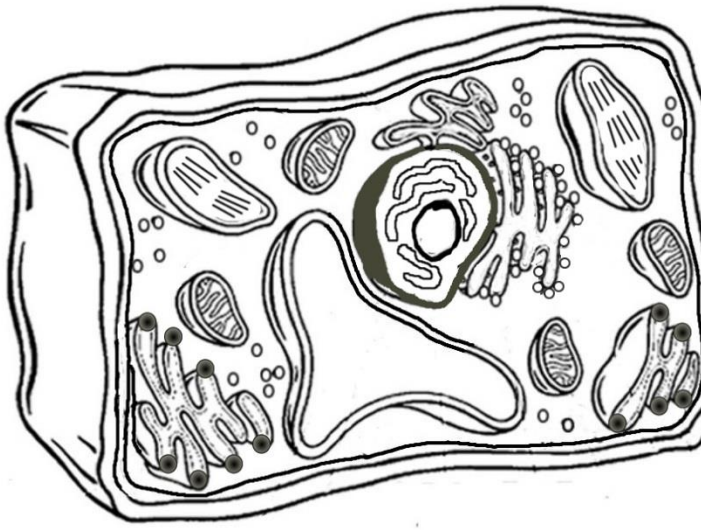
1. Compare genotype and phenotype
2. What are inherited traits?
    a. Dominant
    b. Recessive
3. Give an example of a Punnett square with a Bb and a bb
4. Explain the difference between co-dominance and incomplete dominance

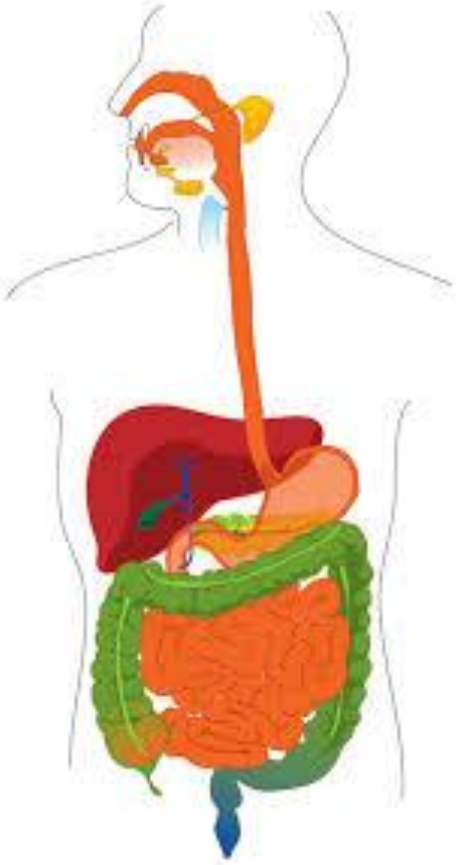
7. EC.5 Interactions in the Environment

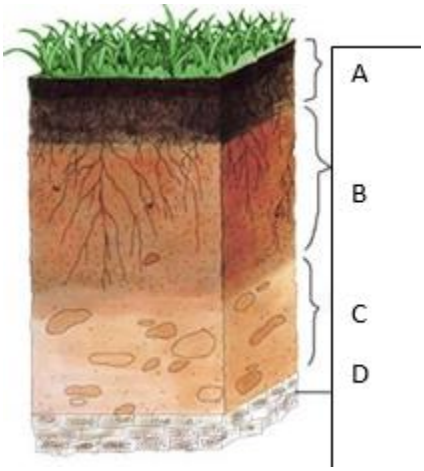
1. List the levels of organization from smallest to largest
2. Define:
    a. Food web
    b. Food chain
    c. Energy pyramid
3. Compare biotic and abiotic factors
4. What are layers of soil called?
5. Define the following types of symbiotic relationships:
    a. Mutualism
    b. Commensalism
    c. Parasitism
6. Define invasive species

7. P.2 Classification and Conservation of Matter

1. Draw the matter flowchart
2. List physical properties of metals and nonmetals
3. List the chemical symbols for
    a. Sodium
    b. Chlorine
    c. Hydrogen
    d. Oxygen
    e. Carbon
4. What does a pH scale measure, what are the numbers
5. What side of the arrow is the reactant?
6. Compare physical and chemical properties
7. Compare physical and chemical changes
8. List the parts of an atom and where they are located.



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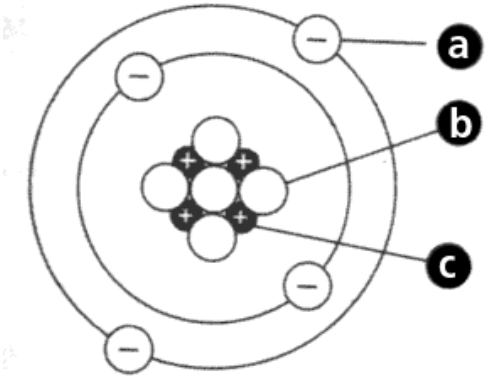
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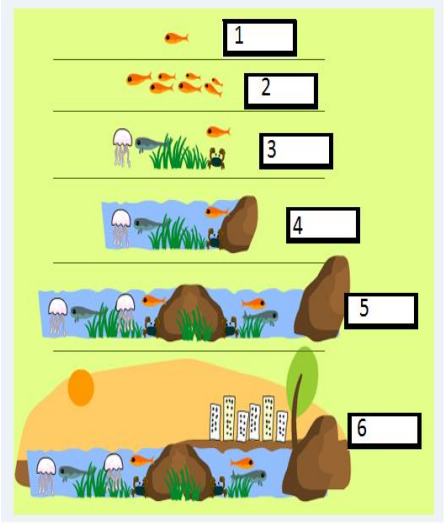
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