

1. Review the scientific process:
 - What is the typical sequence of scientific processes?
 - What kinds of variables are involved in experimentation?
 - What is a control?
 - What is reductionism? Its disadvantages?
2. Living organisms:
 - Have what general characteristics?
 - Have what levels of organization in multicellular organisms?
 - Are mostly composed of what elements?
 - Maintain internal balance by what process?
 - Survive on earth by what two basic strategies?
3. Review basic atomic structure:
 - subatomic particles (location, charge, relative mass)
 - filling of energy levels (higher energy electrons where?)
4. Review the chemistry and properties of water.
5. What is ATP?
6. Review the chemistry of carbon and its compounds:
 - What are the basic categories of organic compounds?
 - What are the functions of the organic compounds?
 - How are organic compounds formed? Broken down?
 - What is the cause/significance of polypeptide shape?
 - What elements are predominant in organic compounds?
7. Review cell structure:
 - What is the difference between a prokaryotic and eukaryotic cell?
 - What structures to all cells have?
 - What are the organelles and their functions?
 - Why are cells generally small in size?
 - What roles are carried out by the plasma membrane?
8. Review cell transport:
 - What is diffusion? Osmosis? Active transport? Facilitated transport? Endo/exocytosis?
 - What are hypotonic, hypertonic, and isotonic solutions? Effects on cells?
 - What determines the ability of a substance to enter or leave a cell?
9. What are the parts of the cell theory?
10. Review the types of reactions in living things:
 - How do we define oxidation? Reduction?
 - Energy transformations involve loss as what?
 - What role do enzymes play in cell reactions? Factors?
 - What are the roles of coenzymes?
11. Review photosynthesis and cellular respiration:
 - What are the reactants/products of each?
 - What types of organisms carry out the reactions?
 - What section of the EM spectrum is used during photosynthesis?
 - What is the function of fermentation?
12. Review cell divisions:
 - Review chromatin and chromosome structure and numbers.
 - What are autosomes? Sex chromosomes?
 - What are the roles of mitosis and meiosis?
 - What cells are diploid? Haploid?
 - How does plant mitosis differ from that in animals?
 - What is the significance of crossing over?
 - What is cytokinesis?
13. Review basic genetics:
 - Mendel had what contributions? Review his work.
 - Be able to predict the outcome of offspring in simple crosses.
 - Review the patterns of inheritance.
 - What patterns of inheritance are observed in humans? Examples?
 - What is genotype? Phenotype?
 - What is a carrier?
14. What are the major functions of the genetic material? Review the historical process that established DNA as the informational molecule.
15. What is the central dogma of biology?
16. Review DNA and RNA:
 - Components and arrangement?
 - What is the bonding pattern between the bases?
 - Review the processes of replication, transcription, and translation.
 - How might the genetic code be described?
17. Review gene regulation:
 - How are genes switched "on and off" in prokaryotes? Eukaryotes?
18. What is the role of genetic material in cancer development and control?

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