TMSCA Science

Concept/Topic List

Science is a fascinating subject, and the TMSCA Science test is designed to promote the love of science. This does occur. However, the fact is that in order to succeed in TMSCA Science, it is much more about memorizing crucial facts. If one studies the various tests over the years, a general pattern of topics emerges. Studying the topics listed on the below list will not only greatly improve your TMSCA Science ability but will also add significantly to your body of scientific knowledge.

Here is a general list of the topics:

1. **Biology**
    a. Cells
        i. Structure
        ii. Function
    b. Ecology
        i. Ecological Roles and niches
        ii. Ecological Succession
    c. Botany
        i. Plant Parts
        ii. Gymnosperms and Angiosperms
        iii. Plant Reproduction
    d. Taxonomy
    e. Anatomy
        i. Different Systems
        ii. System Connections
2. **Chemistry**
    a. Atoms, Molecules, and Compounds
        i. Atomic Structure
        ii. Atomic Properties
    b. The Periodic Table
        i. Groups
3. **Physics**
    a. Newton's Laws
    b. Work, Energy, and Simple Machines
        i. Force, Work, Power Equations
        ii. Various simple machines
    c. Basic Optics
        i. Lenses
        ii. Light movement

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