



# 7<sup>th</sup> Grade Life Science Syllabus

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**Course Description:** Life science is the study of living things in the world around us. How these living things relate to each other and to their environment is an important part of this study. Life science is not simply a collection of facts, but also includes learning to think logically like scientists. Science is a way of knowing, a process for gaining knowledge and understanding of the natural world. It is not enough for students to read about science. They should observe, inquire, question, formulate and test hypotheses, analyze data, report, and evaluate findings.

This course introduces the basic concepts of the cell, including its structure and function, and organization. Living organisms, ranging from the simplest bacteria to complex animals, are surveyed in all five kingdoms. Environmental concerns and its protection are also examined. Course work includes hands-on activities, lectures, demonstrations, films, and independent projects.

## Course Outline:

Unit	Title	Main Scientific Focus	Time
A	<i>Laboratory &amp; Inquiry Skills</i>	Lab equipment and conduction of scientific investigations, data collection and communication of results	2 weeks
B	<i>Organization of Life</i>	Levels of cellular organization, roles of major systems, interaction of systems, and comparison between six kingdoms	4 – 5 weeks
C	<i>Structure &amp; Function of Cells</i>	Cell structure, cell functions, levels of cellular organization	5 – 6 weeks
D	<i>Biological Traits &amp; Heredity</i>	Roles of genes and chromosomes, inheritance of specific traits, asexual and sexual reproduction of organisms	6 weeks
E	<i>Ecology</i>	Environmental conditions/characteristics, factors effecting survival of organisms, interdependence of organisms	5 weeks
F	<i>Energy Flow &amp; Nutrient Cycling</i>	Transfer and recycling of matter and energy, relationships between organisms, interdependence of organisms	5 weeks
G	<i>Evidence of Evolution</i>	Natural selection, environmental conditions, fossils, evidence of change	4 weeks

## Rules & Expectations:

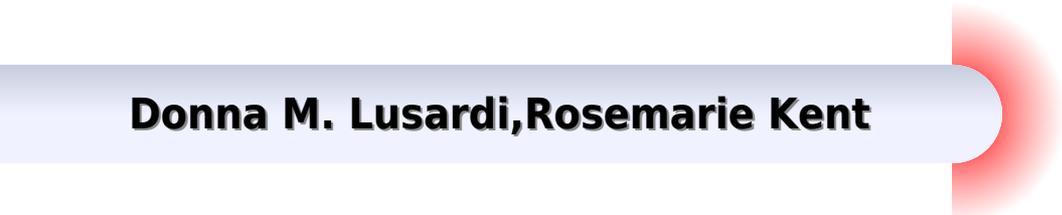
- ◆ Be present and on time for class.
- ◆ Be prepared for class with appropriate materials.
- ◆ Respect others and their property.
- ◆ Follow all directions.
- ◆ Adhere to lab policies and safety rules.
- ◆ Help create and maintain a positive learning environment.

## Daily Requirements & Materials:

- ◆ Students are expected to report to class each day with textbook, blue and black pens, pencils, planner, and 3-ring binder with paper as well as other materials required by the teacher.
- ◆ Students are expected to complete all assignments in a timely manner.

# Life Science 7th Grade Study Guide

**Donna M. Lusardi, Rosemarie Kent**



## **Life Science 7th Grade Study Guide:**

*Resources in Education* ,1984    **List of Outstanding Teaching and Learning Materials** Association for Supervision and Curriculum Development,1972    Report International Clearinghouse on Science and Mathematics Curricular Developments,1966    *Home and School Reading and Study Guides* Donna M. Lusardi,Rosemarie Kent,2007    **Science Note-Taking Reading Study Guide Life Science Grade 7** ,2005-08-11    **Pennsylvania School Journal** ,1923

**Home and School Reading and Study Guides** ,1996    **Social Sciences and Humanities Index** ,1916    *Manual with Course of Study in Arithmetic for the Elementary Schools of Indiana* Indiana. Department of Public Instruction,1924

Catholic School Journal ,1930    **The Publishers' Trade List Annual** ,1917    Bibliography of Science Courses of Study and Textbooks for Grades 7-12 National Science Teachers Association,1968    **The Texas Outlook** ,1926

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## **Table of Contents Life Science 7th Grade Study Guide**

1. Understanding the eBook Life Science 7th Grade Study Guide
  - The Rise of Digital Reading Life Science 7th Grade Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Life Science 7th Grade Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Life Science 7th Grade Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Life Science 7th Grade Study Guide
  - Personalized Recommendations
  - Life Science 7th Grade Study Guide User Reviews and Ratings
  - Life Science 7th Grade Study Guide and Bestseller Lists
5. Accessing Life Science 7th Grade Study Guide Free and Paid eBooks
  - Life Science 7th Grade Study Guide Public Domain eBooks
  - Life Science 7th Grade Study Guide eBook Subscription Services
  - Life Science 7th Grade Study Guide Budget-Friendly Options
6. Navigating Life Science 7th Grade Study Guide eBook Formats

- ePub, PDF, MOBI, and More
  - Life Science 7th Grade Study Guide Compatibility with Devices
  - Life Science 7th Grade Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Life Science 7th Grade Study Guide
    - Highlighting and Note-Taking Life Science 7th Grade Study Guide
    - Interactive Elements Life Science 7th Grade Study Guide
  8. Staying Engaged with Life Science 7th Grade Study Guide
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Life Science 7th Grade Study Guide
  9. Balancing eBooks and Physical Books Life Science 7th Grade Study Guide
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Life Science 7th Grade Study Guide
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Life Science 7th Grade Study Guide
    - Setting Reading Goals Life Science 7th Grade Study Guide
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Life Science 7th Grade Study Guide
    - Fact-Checking eBook Content of Life Science 7th Grade Study Guide
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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