



# 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

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