



7th 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 & 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 & Function of Cells</i>	Cell structure, cell functions, levels of cellular organization	5 – 6 weeks
D	<i>Biological Traits & 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 & 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.

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Report International Clearinghouse on Science and Mathematics Curricular Developments,1966 Research in
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Pennsylvania School Journal ,1923 **Making a Difference: Volume I and II** Sasha A. Barab,Kenneth E.
Hay,Nancy Butler Songer,Daniel T. Hickey,2017-09-05 William Wordsworth 1770 1850 needs little introduction as the central
figure in Romantic poetry and a crucial influence in the development of poetry generally This broad ranging survey redefines
the variety of his writing by showing how it incorporates contemporary concepts of language difference and the ways in
which popular and serious literature were compared and distinguished during this period It discusses many of Wordsworth s
later poems comparing his work with that of his regional contemporaries as well as major writers such as Scott The key
theme of relationship both between characters within poems and between poet and reader is explored through Wordsworth s
construction of community and his use of power relationships A serious discussion of the place of sexual feeling in his writing
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Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National
Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-03-30 With age appropriate
inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and
energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle
School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting
effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400
curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the
success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on
inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide
are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science
and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science
activity books Each annotation of curriculum material includes a recommended grade level a description of the activities
involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering
information The curriculum materials included in this book were selected by panels of teachers and scientists using
evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science

Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

In the Shadow of Authoritarianism Thomas D. Fallace, 2018-08-17 In the Shadow of Authoritarianism explores how American educators in the wake of World War I created a student centered curriculum in response to authoritarian threats abroad For most of the 20th century American educators lived in the shadow of ideological political cultural and existential threats including Prussianism propaganda collectivism dictatorship totalitarianism mind control the space race and moral relativity To meet the perceived threat the American curriculum was gradually moved in a more student centered direction that focused less on what to think and more on how to think This book examines the period between World War I and the 1980s focusing on how U S schools countered the influence of fascist and communist ideologies as well as racial discrimination Fallace also considers this approach in light of current interests in the Common Core State Standards Book Features Places American educational ideas in a global context Outlines how events overseas shaped challenged and supported the ideals of progressive and postwar education Discusses a major reorientation in democratic education from ideological commitment to ideological skepticism before and after World War II Examines how leading American educators cited the work of educational philosopher John Dewey in different ways before and after World War II Traces how educators responded to epistemological issues surrounding propaganda and indoctrination precursors to fake news and alternative facts

Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1967

Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery

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