

CK-12 Biology

CK-12 BIOLOGY EBOOK AUTHOR BY CK-12 FOUNDATION

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(98) Reviewer update 2020-01-26 02:34:26



Release on: 2011-08-04

ISBN13: 9781935983132

Format: PDF, ePub, Kindle, Audiobook

Size: 92.39 MB

Genre: Life Sciences

Summary

CK-12 Foundation's Biology FlexBook covers the following chapters: What is Biology - investigations, methods, observations. The Chemistry of Life - biochemical, chemical properties. Cellular Structure & Function - DNA, RNA, protein, transport, homeostasis. Photosynthesis & Cellular Respiration - energy, glucose, ATP, light, Calvin cycle, glycolysis, Krebs cycle. The Cell Cycle, Mitosis & Meiosis - cell division, sexual, asexual reproduction. Gregor Mendel & Genetics - inheritance, probability, dominant, recessive, sex-linked traits. Molecular Genetics: From DNA to Proteins - mutation, gene expression. Human Genetics & Biotechnology - human genome, genetic disorders, sex-linked inheritance, cloning. Life: From the First Organism Onward - evolution, extinctions, speciation, classification. The Theory of Evolution - Darwin, ancestry, selection, comparative anatomy, biogeography. The Principles of Ecology - energy, ecosystems, water, carbon, nitrogen cycles. Communities & Populations - biotic ecosystems, biodiversity, resources, climate. Microorganisms: Prokaryotes & Viruses - prokaryotes, viruses, bacteria. Eukaryotes: Protists & Fungi - animal-, plant-, fungus-like protists, fungi. Plant Evolution & Classification - plant kingdom, nonvascular, vascular, seed, flowering plants. Plant Biology - tissues, roots, stems, leaves, growth. Introduction to Animals - invertebrates, classification, evolution. From Sponges to Invertebrate Chordates - sponges, cnidarians, flatworms, roundworms. From Fish to Birds - characteristics, classification, evolution. Mammals & Animal Behavior - traits, reproduction, evolution, classification, behavior. Introduction to the Human Body: Bones, Muscles & Skin - skeletal, muscular, integumentary systems. The Nervous & Endocrine Systems - structures, functions. The Circulatory, Respiratory, Digestive & Excretory Systems - structures, functions, Food Pyramid. The Immune System & Disease - responses, defenses. Reproduction & Human Development - male, female, lifecycle. Biology Glossary.

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Others book from CK-12 Foundation

[CK-12 BIOLOGY INTERACTIVE EDITION](#)



CK-12 Biology is a high school FlexBook covering cell biology, genetics, evolution, ecology, microorganisms, fungi, plants, invertebrates, vertebrates, and physiology. ...

[CK-12 CALCULUS, VOLUME 1](#)



CK-12 Foundation's Calculus, Volume 1 FlexBook covers the following four chapters: Functions, Limits, and Continuity - A review of the basics of functions is given. Students use linear approximations to study the limit process, before a more formal treatment of limits is given. Differentiation - Students explore instantaneous rate of change, and the relationship between continuity and differentiability. The Chain Rule and implicit differentiation are reviewed. ...

[CK-12 BASIC ALGEBRA, VOLUME 1](#)



CK-12 Foundation's Basic Algebra, Volume 1 FlexBook covers the following six chapters: Expressions, Equations, and Functions - covers the relationships among expressions, equations, and functions when variables are present. Also explored is how these ideas can be shown on graphs. Properties of Real Numbers - covers various forms that rational numbers can assume, including fractions, integers, and square roots. Also considered are different operations for manipulating rational numbers. ...

[CK12 PEOPLE'S PHYSICS BOOK VERSION 2](#)



CK-12 Foundation's People's Physics Book Version 2 Covers the following chapters: Units and Problem Solving- Units, conversions, measurements & symbols Energy Conservation- 5 laws One-Dimensional Motion- motion, velocity, acceleration & deceleration Two Dimensional and Projectile Motion- motion & velocity Newton's Laws- study of motion, acceleration & force Centripetal Forces- study of force, velocity changes, net-forces, applied forces & acceleration Momentum ...

[CK-12 CALCULUS, VOLUME 2](#)



CK-12 Foundation's Calculus, Volume 2 FlexBook covers the following four chapters: Applications of Integration - This chapter includes applications of the definite integral, such as calculating areas between two curves, volumes, length of curves, and other real-world applications in physics and statistics. Transcendental Functions - This chapter includes differentiation and integration of logarithmic and exponential functions, exponential growth and decay, derivatives and ...

[CK-12 BASIC PHYSICS - SECOND EDITION](#)



CK-12 Basic Physics - Second Edition covers the following chapters:
Units: This chapter covers the basic units used in physics, guidelines for using units, and their importance within physics.
Wave: This chapter covers objects in harmonic motion, which are defined as objects that return to the same position after a fixed period of time. Objects in harmonic motion have the ability to transfer some of their energy over large distances.
Light Nature: This chapter covers the ...

[CK-12 BASIC ALGEBRA, VOLUME 2](#)



CK-12 Foundation's Basic Algebra, Volume 2 FlexBook covers the following six chapters: Systems of Equations and Inequalities; Counting Methods - introduces students to linear systems of equations and inequalities as well as probability and combinations. Operations on linear systems are covered, including addition, subtraction, multiplication, and division. Exponents and Exponential Functions - covers more complex properties of exponents when used in functions. Exponential decay and growth ...

[CK-12 ENGINEERING](#)



Introduces engineering techniques and practices to high school students. This book is designed for a broad range of student abilities and does not require significant math or science prerequisites...

[CK-12 EARTH SCIENCE FOR MIDDLE SCHOOL](#)



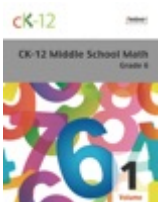
CK-12 Earth Science For Middle School covers the study of Earth - its minerals and energy resources, processes inside and on its surface, its past, water, weather and climate, the environment and human actions, and astronomy...

[CK-12 BIOLOGY WORKBOOK](#)



CK-12 Biology Workbook complements its CK-12 Biology book...

[CK-12 MIDDLE SCHOOL MATH - GRADE 6, VOLUME 1 OF 2](#)



CK-12's Middle School Math Grade 6 covers the fundamentals of fractions, decimals, and geometry. Also explored are units of measurement, graphing concepts, and strategies for utilizing the book's content in practical situations. Volume 1 includes the first 6 chapters - Number Sense and Variable Expressions, Statistics and Measurement, Addition and Subtraction of Decimals, Multiplication and Division of Decimals, Number Patterns and Fractions, and Addition and Subtraction of Fractions...

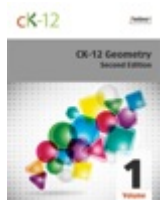
[CK-12 BASIC GEOMETRY, VOLUME 1 OF 2](#)



CK-12's Basic Geometry FlexBook, Volumes 1 through 2, is designed to present students with geometric principles in a more graphics-oriented course. Volume 1 includes 6 chapters: Basics of Geometry, Reasoning and Proof, Parallel and Perpendicular Lines, Triangles and Congruence, Relationships with Triangles, and Polygons and Quadrilaterals...

[CK-12 GEOMETRY - SECOND EDITION, VOLUME 1 OF 2](#)

Summary CK-12 Biology Book



CK-12's Geometry - Second Edition is a clear presentation of the essentials of geometry for the high school student. Topics include: Proofs, Triangles, Quadrilaterals, Similarity, Perimeter & Area, Volume, and Transformations. Volume 1 includes the first 6 chapters: Basics of Geometry, Reasoning and Proof, Parallel and Perpendicular Lines, Triangles and Congruence, Relationships with Triangles, and Polygons and Quadrilaterals...

[CK-12 EARTH SCIENCE FOR HIGH SCHOOL](#)



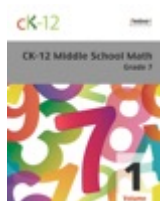
CK-12 Earth Science For High School covers the study of Earth - its minerals and energy resources, processes inside and on its surface, its past, water, weather and climate, the environment and human actions, and astronomy...

[CK-12 PROBABILITY AND STATISTICS - BASIC \(A FULL COURSE\)](#)



CK-12's Probability and Statistics - Basic (A Full Course) is an introduction to theoretical probability and data organization. Students learn about events, conditions, random variables, and graphs and tables that allow them to manage data...

[CK-12 MIDDLE SCHOOL MATH - GRADE 7, VOLUME 1 OF 2](#)



Explores foundational math concepts that will prepare students for Algebra and more advanced subjects. Material includes decimals, fractions, exponents, integers, percents, inequalities, and some basic geometry. Volume 1 includes the first 6 chapters...

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