

# AP Biology - Core Concept Cheat Sheet

## 01: Introduction to AP Biology

### Key Terms

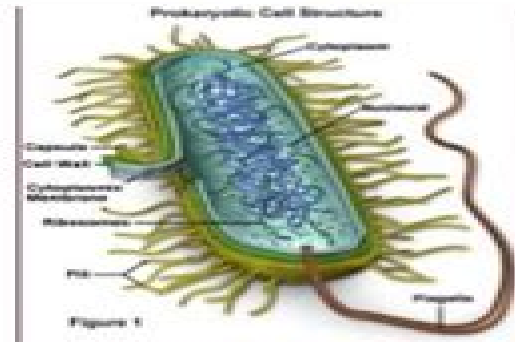
- AP Biology Exam:** The AP Biology exam is a combination of multiple-choice (60%) and essay (40%) questions. The exam is scored between 1 and 5; individual institutions set their standards for credit but, on average, scores ranging between 3 and 5 will be enough to gain credit.
- Scope of the Exam:** the writers acknowledge that teachers vary a little in the content and emphasis of a General Biology Course. Therefore, they write questions over every topic and do not expect any one student to know them all!
- Free Energy Changes:** Gibbs free energy ( $\Delta G$ ) refers to the energy that a system has available for work.  $\Delta G$  is the net change in free energy (products - reactants), given as kcal/mol or kJ/mol.
- Enzymes:** Enzymes lower the activation energy, as compared to the same reaction without one, which helps ensure the reaction will proceed.
- Cell Cycle:** The cell cycle is a series of events that takes place before the cell divides, during mitosis (M phase), G1 Phase, S Phase, G2 Phase, M Phase.
- Photosynthesis:** converts  $\text{CO}_2 + \text{H}_2\text{O} + \text{energy}$  into sugars and oxygen; this process is mainly done by plant life on land and phytoplankton of the oceans.
- Meiosis:** Meiosis is the process of gamete formation. Before meiosis, the chromosomes also have to be duplicated. The first division involves a prophase, a metaphase, an anaphase and a telophase, which are very similar to mitosis.
- Gene Regulation:** The regulation of genes allows cells to adapt to changing environments, respond to cellular stress, and perform functions, such as cell division.
- Phylogenetic Tree:** A phylogenetic tree is a branching graph that shows the evolutionary inter-relationships between species and shows the common ancestor. Each node represents the most recent common ancestor of the descendants. The lengths of the branches are time estimates.
- Community Ecology:** is the study of all the populations that inhabit a particular area and their interactions with each other.

### Free Energy Changes

If $\Delta G < 0$	Spontaneous reaction (exergonic)
If $\Delta G > 0$	Non-spontaneous reaction (endergonic)
If $\Delta G = 0$	Reaction at equilibrium

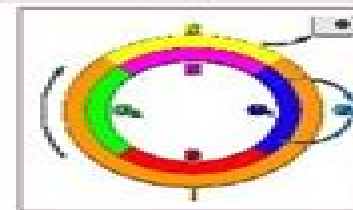
Gibbs free energy ( $\Delta G$ ) refers to the energy that a system has available for work.  $\Delta G$  is the net change in free energy (products - reactants), given as kcal/mol or kJ/mol.

### Prokaryotic Cell



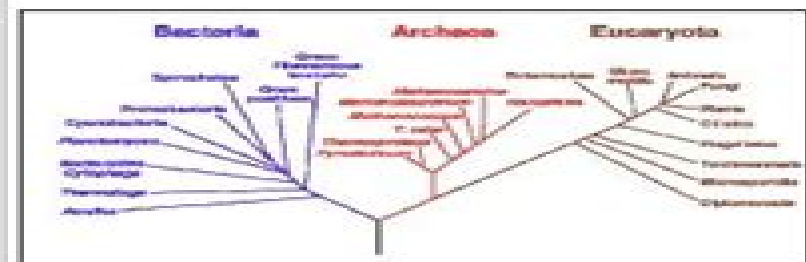
### Prokaryotic Cell

### Cell Cycle



The cell cycle is a series of events that takes place before the cell divides, during mitosis (M phase). There are regulatory molecules, such as cyclins and cyclin-dependent kinases, which determine a cell's progression through the cell cycle.

### Phylogenetic Tree



# Introduction To Biology Cheat Sheet

**Rene Fester Kratz**



## **Introduction To Biology Cheat Sheet:**

*Biology Essentials For Dummies* Rene Fester Kratz, Donna Rae Siegfried, 2019-04-17 *Biology Essentials For Dummies* 9781119589587 was previously published as *Biology Essentials For Dummies* 9781118072677 While this version features a new Dummies cover and design the content is the same as the prior release and should not be considered a new or updated product Just the core concepts you need to score high in your biology course *Biology Essentials For Dummies* focuses on just the core concepts you need to succeed in an introductory biology course From identifying the structures and functions of plants and animals to grasping the crucial discoveries in evolutionary reproductive and ecological biology this easy to follow guide lets you skip the suffering and score high at exam time Get down to basics master the fundamentals from understanding what biologists study to how living things are classified The chemistry of life find out what you need to know about atoms elements molecules compounds acids bases and more Conquer and divide discover the ins and outs of asexual and sexual reproduction including cell division and DNA replication Jump into the gene pool grasp how proteins make traits happen and easily understand DNA transcription RNA processing translation and gene regulation *Biology For Dummies* Rene Fester Kratz, 2017-03-06 The ultimate guide to understanding biology Have you ever wondered how the food you eat becomes the energy your body needs to keep going The theory of evolution says that humans and chimps descended from a common ancestor but does it tell us how and why We humans are insatiably curious creatures who can't help wondering how things work starting with our own bodies Wouldn't it be great to have a single source of quick answers to all our questions about how living things work Now there is From molecules to animals cells to ecosystems *Biology For Dummies* answers all your questions about how living things work Written in plain English and packed with dozens of enlightening illustrations this reference guide covers the most recent developments and discoveries in evolutionary reproductive and ecological biology It's also complemented with lots of practical up to date examples to bring the information to life Discover how living things work Think like a biologist and use scientific methods Understand lifecycle processes Whether you're enrolled in a biology class or just want to know more about this fascinating and ever evolving field of study *Biology For Dummies* will help you unlock the mysteries of how life works **Molecular & Cell Biology For Dummies** Rene Fester Kratz, 2020-06-16 Your insider guide to the stuff of life 3.8 billion years old and counting there's more than a little to know about the fundamentals of how life works This friendly guide takes you from the primordial soup to the present explaining how specialized cells have given rise to everything living from the humblest amoeba to walking talking human beings Whether you're enrolled in a cell or molecular biology course and need a straightforward overview or are just curious about the latest advances this fully updated edition is your all access ticket to our inner world *Molecular Cell Biology For Dummies* decodes jargon and theories that can tax even the most devoted student It covers everything from basic principles to how new technology genetic testing and microarray techniques are opening up new possibilities for research and careers It also includes invaluable tips on how to

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*Cell Biology by the Numbers* Ron Milo, Rob Phillips, 2015-12-07 A Top 25 CHOICE 2016 Title and recipient of the CHOICE Outstanding Academic Title OAT Award How much energy is released in ATP hydrolysis How many mRNAs are in a cell How genetically similar are two random people What is faster transcription or translation Cell Biology by the Numbers explores these questions and dozens of others provide

**Chance in Biology** Mark Denny, Steven Gaines, 2011-10-23 Life is a chancy proposition from the movement of molecules to the age at which we die chance plays a key role in the natural world Traditionally biologists have viewed the inevitable noise of life as an unfortunate complication The authors of this book however treat random processes as a benefit In this introduction to chance in biology Mark Denny and Steven Gaines help readers to apply the probability theory needed to make sense of chance events using examples from ocean waves to spiderwebs in fields ranging from molecular mechanics to evolution Through the application of probability theory Denny and Gaines make predictions about how plants and animals work in a stochastic universe Is it possible to pack a variety of ion channels into a cell membrane and have each operate at near peak flow Why are our arteries rubbery The concept of a random walk provides the necessary insight Is there an absolute upper limit to human life span Could the sound of a cocktail party burst your eardrums The statistics of extremes allows us to make the appropriate calculations How long must you wait to see the detail in a moonlit landscape Can you hear the noise of individual molecules The authors provide answers to these and many other questions After an introduction to the basic statistical methods to be used in this book the authors emphasize the application of probability theory to biology rather than the details of the theory itself Readers with an introductory background in calculus will be able to follow the reasoning and sets of problems together with their solutions are offered to reinforce concepts The use of real world examples numerous illustrations and chapter summaries all presented with clarity and wit make for a highly accessible text By relating the theory of probability to the understanding of form and function in living things the authors seek to pique the reader's curiosity about statistics and provide a new perspective on the role of chance in biology

Computational Biology R  bbe W  nschiers, 2013-01-30 This greatly expanded 2nd edition provides a practical introduction to data processing with Linux tools and the programming languages AWK and Perl data management with the relational database system MySQL and data analysis and visualization with the statistical computing environment R for students and practitioners in the life sciences Although written for beginners experienced researchers in areas involving bioinformatics and computational biology may benefit from numerous tips and tricks that help to process filter and format large datasets Learning by doing is the basic concept of this book Worked examples illustrate how to employ

data processing and analysis techniques e.g. for finding proteins potentially causing pathogenicity in bacteria supporting the significance of BLAST with homology modeling or detecting candidate proteins that may be redox regulated on the basis of their structure. All the software tools and datasets used are freely available. One section is devoted to explaining setup and maintenance of Linux as an operating system independent virtual machine. The author's experiences and knowledge gained from working and teaching in both academia and industry constitute the foundation for this practical approach.

**Botany For Dummies** Rene Fester Kratz, 2024-11-05 Harvest basic botany knowledge from this abundant book. Botany For Dummies gives you a thorough overview of the fundamentals of botany but in simple terms that anyone can understand. Great for supplementing your botany coursework or brushing up before an exam, this book covers plant evolution, the structure and function of plant cells, and plant identification. Plus, you'll learn about how plants of different types are changing and adapting in response to changing climates. This new edition goes into more detail on fungi, not technically plants, but no one is holding that against them. Regardless of what brought you to the wonderful world of botany, this book will show you around. Get an easy-to-understand introduction to the key concepts in botany. Read about recent discoveries and theories in the world of plant science. Understand different families of plants and where they grow. Improve your grade and pass your exam in your introductory botany course. Get a copy of Botany For Dummies and watch your botany knowledge bloom.

**Anatomy & Physiology For Dummies** Erin O'Day, Maggie A. Norris, 2017-03-08 Learn about the human body from the inside out. Some people think that knowing about what goes on inside the human body can sap life of its mystery, which is too bad for them. Anybody who's ever taken a peak under the hood knows that the human body and all its various structures and functions is a realm of awe-inspiring complexity and countless wonders. The dizzying dance of molecule, cell, tissue, organ, muscle, sinew, and bone that we call life can be a thing of breathtaking beauty and humbling perfection. Anatomy Physiology For Dummies combines anatomical terminology and function so you'll learn not only names and terms but also gain an understanding of how the human body works. Whether you're a student, an aspiring medical healthcare or fitness professional, or just someone who's curious about the human body and how it works, this book offers you a fun, easy way to get a handle on the basics of anatomy and physiology. Understand the meaning of terms in anatomy and physiology. Get to know the body's anatomical structures from head to toe. Explore the body's systems and how they interact to keep us alive. Gain insight into how the structures and systems function in sickness and health. Written in plain English and packed with beautiful illustrations, Anatomy Physiology For Dummies is your guide to a fantastic voyage of the human body.

**Genetics For Dummies** Tara Rodden Robinson, Lisa Spock, 2019-12-12 Your no-nonsense guide to genetics. With rapid advances in genomic technologies, genetic testing has become a key part of both clinical practice and research. Scientists are constantly discovering more about how genetics plays a role in health and disease, and healthcare providers are using this information to more accurately identify their patients' particular medical needs. Genetic information is also increasingly being used for a wide range of non-

clinical purposes such as exploring one's ancestry This new edition of Genetics For Dummies serves as a perfect course supplement for students pursuing degrees in the sciences It also provides science lovers of all skill levels with easy to follow and easy to understand information about this exciting and constantly evolving field This edition includes recent developments and applications in the field of genetics such as Whole genome and whole exome sequencing Precision medicine and pharmacogenetics Direct to consumer genetic testing for health risks Ancestry testing Featuring information on some of the hottest topics in genetics right now this book makes it easier than ever to wrap your head around this fascinating subject

**Raising Chickens For Dummies** Kimberley Willis, Robert T. Ludlow, 2019-11-13 Your hands on guide to modern chicken raising methods Thinking about raising chickens You've come to the right place This new edition of Raising Chickens For Dummies provides the most up to date thorough information on the many aspects of keeping chickens in your backyard Inside you'll find hands on easy to follow instructions on choosing and purchasing chickens constructing housing for your birds feeding your chickens for optimal health combating laying issues controlling pests and predators optimizing egg production and much more Raising chickens on a small scale is a popular and growing pastime If you're interested in keeping chickens as pets or as a source for eggs Raising Chickens For Dummies gives you plain English explanations of everything you need to know to about caring for chickens Inside you'll learn about basic chicken biology breeds and behavior which chicken breed is best for you how many you need ways to spot healthy chickens how to build a chicken coop best practices for mating your chickens how to incubate eggs how to hatch and nurture chicks manage laying hens collect and store eggs and butcher meat birds Offers practical advice on choosing and purchasing chickens Helps you construct the right housing for your chickens Provides tips on feeding and caring for your chickens Includes top tips for raising healthy chickens Whether you're a first time poulterer or you've been raising chickens for years this comprehensive guide provides practical how to advice for keeping chickens in virtually any backyard Raising Chickens For Dummies 9781119675921 was previously published as Raising Chickens For Dummies 9781118982785 While this version features a new Dummies cover and design the content is the same as the prior release and should not be considered a new or updated product

Summary & Study Guide - Fat for Fuel Lee Tang, 2017-09-09 Combat Cancer Increase Your Energy Boost Your Brainpower Lose Weight and Keep It Off This book is a summary of Fat for Fuel A Revolutionary Diet to Combat Cancer Boost Brain Power and Increase Your Energy by Dr Joseph Mercola This book summarizes the key concepts of Dr Mercola's Mitochondrial Metabolic Therapy program It also includes a diet cheat sheet which is a concise summary of the dietary principles including a general guidelines b foods to eat daily c foods to eat in moderation and d foods to avoid By following the Mitochondrial Metabolic Therapy program you can treat and prevent serious diseases increase your energy boost your brainpower lose weight and keep it off Stop Read and Take Action to Protect Your Mitochondria This guide includes Book Summary helps you understand the key concepts Online Videos cover the concepts in more depth Diet Cheat Sheet A concise

summary of the dietary principles including a general guidelines b foods to eat daily c foods to eat in moderation and d foods to avoid Value added from this guide Save time Understand key concepts Expand your knowledge     *An Introduction to Game-Theoretic Modelling: Third Edition* Mike Mesterton-Gibbons, 2019-07-05 This book introduces game theory and its applications from an applied mathematician's perspective systematically developing tools and concepts for game theoretic modelling in the life and social sciences Filled with down to earth examples of strategic behavior in humans and other animals the book presents a unified account of the central ideas of both classical and evolutionary game theory Unlike many books on game theory which focus on mathematical and recreational aspects of the subject this book emphasizes using games to answer questions of current scientific interest In the present third edition the author has added substantial new material on evolutionarily stable strategies and their use in behavioral ecology The only prerequisites are calculus and some exposure to matrix algebra probability and differential equations     *The Gamer's Brain* Celia Hodent, 2017-08-10 Making a successful video game is hard Even games that are well received at launch may fail to engage players in the long term due to issues with the user experience UX that they are delivering That's why makers of successful video games like Fortnite and Assassin's Creed invest both time and money perfecting their UX strategy These top video game creators know that a bad user experience can ruin the prospects for any game regardless of its budget scope or ambition The game UX accounts for the whole experience players have with a video game from first hearing about it to navigating menus and progressing in the game UX as a discipline offers guidelines to assist developers in creating the optimal experience they want to deliver including shipping higher quality games whether indie triple A or serious games and meeting business goals all while staying true to design vision and artistic intent At its core UX is about understanding the gamer's brain understanding human capabilities and limitations to anticipate how a game will be perceived the emotions it will elicit how players will interact with it and how engaging the experience will be This book is designed to equip readers of all levels from student to professional with cognitive science knowledge and user experience guidelines and methodologies These insights will help readers identify the ingredients for successful and engaging video games empowering them to develop their own unique game recipe more efficiently while providing a better experience for their audience *The Gamer's Brain How Neuroscience and UX Can Impact Video Game Design* Is written by Celia Hodent a UX expert with a PhD in psychology who has been working in the entertainment industry for over 10 years including at prominent companies such as Epic Games Fortnite Ubisoft and LucasArts Major themes explored in this book Provides an overview of how the brain learns and processes information by distilling research findings from cognitive science and psychology research in a very accessible way Topics covered include neuromyths perception memory attention motivation emotion and learning Includes numerous examples from released games of how scientific knowledge translates into game design and how to use a UX framework in game development Describes how UX can guide developers to improve the usability and the level of engagement a game provides



to its target audience by using cognitive psychology knowledge implementing human computer interaction principles and applying the scientific method user research Provides a practical definition of UX specifically applied to games with a unique framework Defines the most relevant pillars for good usability ease of use and good engage ability the ability of the game to be fun and engaging translated into a practical checklist Covers design thinking game user research game analytics and UX strategy at both a project and studio level This book is a practical tool that any professional game developer or student can use right away and includes the most complete overview of UX in games existing today **Bioinformatics For Dummies**

Jean-Michel Claverie, Cedric Notredame, 2011-02-10 Were you always curious about biology but were afraid to sit through long hours of dense reading Did you like the subject when you were in high school but had other plans after you graduated Now you can explore the human genome and analyze DNA without ever leaving your desktop Bioinformatics For Dummies is packed with valuable information that introduces you to this exciting new discipline This easy to follow guide leads you step by step through every bioinformatics task that can be done over the Internet Forget long equations computer geek gibberish and installing bulky programs that slow down your computer You ll be amazed at all the things you can accomplish just by logging on and following these trusty directions You get the tools you need to Analyze all types of sequences Use all types of databases Work with DNA and protein sequences Conduct similarity searches Build a multiple sequence alignment Edit and publish alignments Visualize protein 3 D structures Construct phylogenetic trees This up to date second edition includes newly created and popular databases and Internet programs as well as multiple new genomes It provides tips for using servers and places to seek resources to find out about what s going on in the bioinformatics world Bioinformatics For Dummies will show you how to get the most out of your PC and the right Web tools so you ll be searching databases and analyzing sequences like a pro **Fungi For Dummies** Rene Fester Kratz, 2025-10-27 Discover the fundamentals of fungi with this engaging and easy to follow book Fungi For Dummies gives you an in depth view of the wide world of mycology

With this science focused yet clear and readable book you ll dig deep into the science of the fascinating organisms that help this planet thrive Learn about fungi classifications and structures their uses in and beyond medicine their importance to environmental sustainability and how they have shaped human cultures around the world Go beyond the typical mushroom field guide and get a thorough introduction to the study of mycology that tracks a typical undergraduate course in the field Grasp the basics of mycology including how fungi grow and how they differ from plants Discover the role fungi play in ecosystems around the world Learn to classify the different biological structures that appear in fungi Know the various fungal groups and their roles in nature and in human endeavors Perfect for those who want or need to get a grasp on mycology Fungi For Dummies is an approachable introduction to this essential organism group

**Pamphlets on Biology**, 1904 *Boost Your Bust* Jenny Bolton, Now there s no need for painful and expensive surgery you can just find out the natural enlargement method This is an all natural alternative to painful surgery or expensive pills It s what plastic surgeons

have been hiding for years If you want to discover how you can increase your cup size within 6 weeks then you need to read this book

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