



STAAR BIOLOGY Quick Reference Guide

RS	Readiness Standard
SS	Supporting Standard Process Skills

Reporting Category 1:

Cell Structure and Function (11 questions)

B.4A	SS	compare and contrast prokaryotic and eukaryotic cells.
B.4B	RS	investigate and explain cellular processes, including homeostasis, energy conversions, transport of molecules, and synthesis of new molecules.
B.4C	RS	compare the structures of viruses to cells, describe viral reproduction, and describe the role of viruses in causing diseases such as human immunodeficiency virus (HIV) and influenza.
B.5A	RS	describe the stages of the cell cycle, including deoxyribonucleic acid (DNA) replication and mitosis, and the importance of the cell cycle to the growth of organisms.
B.5B	SS	examine specialized cells, including roots, stems, and leaves of plants; and animal cells, such as blood, muscle, and epithelium.
B.5C	SS	describe the roles of DNA, ribonucleic acid (RNA), and environmental factors in cell differentiation.
B.5D	SS	recognize that disruptions of the cell cycle lead to diseases such as cancer.
B.5A	RS	compare the structures and functions of different types of biomolecules, including carbohydrates, fats, proteins, and nucleic acids.
B.9D	SS	analyze and evaluate the evidence regarding formation of simple organic molecules and their organization into more complex molecules having information such as the DNA molecule for self-replicating life.

Reporting Category 2: Mechanisms of Genetics (11 questions)

B.6A	RS	identify components of DNA, and describe how information for specifying the traits of an organism is carried in the DNA.
B.6B	SS	recognize that components that make up the genetic code are common to all organisms.
B.6C	SS	explain the purpose and process of transcription and translation using models of DNA and RNA.
B.6D	SS	recognize that gene expression is a regulated process.
B.6E	RS	identify and illustrate changes in DNA, and evaluate the significance of these changes.
B.6F	RS	predict possible outcomes of various genetic combinations such as monohybrid crosses, dihybrid crosses, and non-Mendelian inheritance.
B.6G	SS	recognize the significance of meiosis to sexual reproduction.
B.6H	SS	describe how techniques such as DNA fingerprinting, genetic modifications, and chromosomal analysis are used to study the genomes of organisms.

Reporting Category 3:

Biological Evolution and Classification (10 questions)

B.7A	RS	analyze and evaluate how evidence of common ancestry among groups is provided by the fossil record, biogeography, and thermogenes, including anatomical, molecular, and developmental.
B.7B	SS	analyze and evaluate scientific explanations concerning any data of sudden appearance, stasis, and sequential nature of groups in the fossil record.
B.7C	SS	analyze and evaluate how natural selection produces change in populations, not individuals.
B.7D	SS	analyze and evaluate the elements of natural selection, including inherited variation, the potential of a population to produce more offspring than can survive, and a finite supply of environmental resources, result in differential reproductive success.
B.7E	RS	analyze and evaluate the relationship of natural selection to adaptation and to the development of diversity in and among species.
B.7F	SS	analyze and evaluate the effects of other evolutionary mechanisms, including genetic drift, gene flow, mutation, and recombination.
B.7G	SS	analyze and evaluate scientific explanations concerning the complexity of the cell.
B.8A	SS	define taxonomy and recognize the importance of a standardized taxonomic system to the scientific community.
B.8B	RS	categorize organisms using a hierarchical classification system based on similarities and differences shared among groups.
B.8C	SS	compare characteristics of taxonomic groups, including archaea, bacteria, protists, fungi, plants, and animals.

Reporting Category 4: Biological Processes and Systems (11 questions)

B.9B	SS	compare the reactants and products of photosynthesis and cellular respiration in terms of energy and matter.
B.9C	SS	identify and investigate the role of enzymes.
B.10A	RS	describe the interactions that occur among systems that perform the functions of regulation, nutrient absorption, reproduction, and defense from injury or illness in animals.
B.10B	RS	describe the interactions that occur among systems that perform the functions of transport, reproduction, and response in plants.
B.10C	SS	analyze the levels of organization in biological systems and relate the levels to each other and to the whole system.
B.11A	SS	describe the role of internal feedback mechanisms in the maintenance of homeostasis.

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Michal Rosen-Zvi

Staar Biology Quick Reference Guide:

Reference Services Review ,1973 **RES Biology STAAR Study Guide** Responsive Education Solutions,2014-03-01
Individual Biology STAAR Study Guide *Index Medicus* ,2002 Vols for 1963 include as pt 2 of the Jan issue Medical subject
headings **Choice** ,1994 **Forthcoming Books** Rose Arny,1998-06 **General Biology Quick Reference Guide** Rue
Educational Publishers, Incorporated,2007-01-01 **Paperbound Books in Print** ,1982 *Books in Print* ,1991

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STAAR Review to Go Region 4 Education Service Center, 2016-04-15 *Biology* W. Randy Brooks, 2006-11 The Biology book contains 144 Full Color pages and includes table of contents study hints notes showing key terms examples explaining concepts diagrams and illustrations for student friendly use plus color coded chapters **STAAR Guide to Success**

Biology EL Saber Enterprises, 2014-01-01 **Biology of Evolution and Systematics** Paul Sanghera, 2015-08-25 In this book Dr Paul Sanghera the bestselling author of several books in science and technology provides a cohesive concise yet comprehensive coverage of the key concepts of evolution and systematics in an accessible way The book presents material in a logical learning sequence each section builds upon previous sections and each chapter upon previous chapters All concepts simple or complex are well defined and clearly explained the first time they appear There is no hopping from topic to topic and no technical jargon without explanation This book is useful for both students and professionals in biology Students can use the distilled information in this book to excel in their assignments and exams including AP Biology Even though this book is self contained it also works as a great supplement to any textbook in general biology Professionals in a biology related field can use it as a quick reference guide or for a concise review of fundamental concepts whereas the newcomers can use it as their gateway into the field to swiftly ramp up to speed The chapters in the book have the following special features Note A Note is used to present additional helpful material related to the topic being described or to emphasize a concept Caution A Caution is used to highlight a point which either is crucial or may not fit into a framework of common sense Think About It This feature presents questions or simple problems with answers and solutions to emphasize critical concepts Problems Problems are presented with solutions to explain mathematical concepts Review Questions Review questions with answers are presented at the end of each chapter in order to enable you to test your knowledge and detect your strengths and weakness Glossary This feature permits straightforward access to key terms

Unveiling the Magic of Words: A Overview of "**Staar Biology Quick Reference Guide**"

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