

# things to learn in biology

Things to Learn in Biology: Exploring the Wonders of Life

**things to learn in biology** can open up a fascinating world filled with discovery and understanding about the living organisms that share our planet. Whether you are a student just starting out or someone curious about the natural sciences, biology offers a vast landscape of topics ranging from the microscopic building blocks of life to the complex ecosystems that sustain biodiversity. In this article, we'll dive into some essential and intriguing areas of biology that are worth exploring, helping you grasp why this science is so vital and endlessly captivating.

## Understanding the Basics: Cell Biology and Genetics

At the heart of biology lies the study of cells—the fundamental units of life. Learning about cell biology is one of the first things to learn in biology because it provides insights into how organisms function at the most basic level.

### Cell Structure and Function

Every living organism is made up of cells, which come in various types such as prokaryotic and eukaryotic cells. Understanding the differences between these cells, their organelles, and how they work together is key. For instance, the nucleus acts as the cell's control center, mitochondria power the cell through energy production, and ribosomes synthesize proteins essential for life processes.

Grasping cell biology also means learning about cellular processes such as mitosis and meiosis, which are crucial for growth, reproduction, and genetic variation.

### Genetics and Heredity

Another fundamental thing to learn in biology is genetics, the study of how traits are inherited from one generation to the next. Genetics explains why you might have your parent's eye color or why certain diseases run in families. Concepts such as DNA structure, gene expression, and genetic mutations form the foundation of modern biology and biotechnology.

Studying genetics also opens doors to understanding cutting-edge fields like genetic engineering, CRISPR technology, and personalized medicine, revolutionizing how we approach health and disease.

## Ecology and Environmental Biology: The Study of Life Interactions

Biology isn't just about individual organisms; it's also about how living things interact with each other

and their environment. Ecology is the branch that explores these relationships, making it a critical area to focus on.

## **Ecosystems and Biodiversity**

Learning about ecosystems is about understanding the complex web of life where plants, animals, fungi, and microorganisms coexist and depend on each other. Biodiversity, or the variety of life, is vital for ecosystem stability and resilience.

Exploring topics such as food chains, trophic levels, and energy flow provides insight into how ecosystems function. It also highlights the importance of conservation efforts to protect endangered species and habitats.

## **Human Impact on the Environment**

In modern biology, studying how human activities affect the environment is essential. Topics like climate change, pollution, deforestation, and habitat destruction illustrate the delicate balance of natural systems and our role in preserving them.

Learning about sustainable practices and environmental protection can empower you to make informed decisions and advocate for a healthier planet.

## **Physiology and Anatomy: Exploring Organisms Inside and Out**

To fully appreciate biology, understanding how organisms' bodies work is fundamental. Physiology and anatomy focus on the structure and function of organs and systems in plants and animals.

## **Human Anatomy and Physiology**

For many learners, human biology is a fascinating entry point. Studying the cardiovascular system, respiratory system, nervous system, and others reveals how our bodies maintain homeostasis, respond to stimuli, and support life.

Knowing how organs like the heart, lungs, brain, and kidneys operate not only enriches your biological knowledge but also underpins health sciences and medicine.

## **Plant Physiology**

Don't overlook plants—they play a crucial role in ecosystems and human survival. Plant physiology covers processes like photosynthesis, transpiration, and nutrient uptake, explaining how plants grow

and interact with their environment.

Understanding these mechanisms is vital for fields like agriculture, horticulture, and environmental management.

## **Microbiology and Biotechnology: The Small World with Big Impact**

The microscopic world of bacteria, viruses, fungi, and other microorganisms is another captivating aspect of biology to explore.

### **The Role of Microorganisms**

Microbiology studies these tiny life forms that are everywhere—from the soil beneath your feet to the human gut. They're essential for nutrient cycling, food production, and even influencing human health.

Learning about beneficial microbes like probiotics and harmful pathogens helps build a comprehensive view of health and disease prevention.

### **Biotechnology and Genetic Engineering**

Biotechnology applies biological knowledge to develop technologies and products that improve lives. From creating insulin through recombinant DNA technology to developing biofuels and genetically modified crops, this field is rapidly evolving.

Understanding the ethical considerations and potential benefits of biotechnology is an important part of modern biology education.

## **Evolution and Natural Selection: The Story of Life's Diversity**

One of the most profound things to learn in biology is the theory of evolution, which explains how life has changed over millions of years.

### **Principles of Evolution**

Evolutionary biology covers concepts such as natural selection, adaptation, and speciation. It reveals how organisms evolve traits that help them survive and reproduce in different environments.

Studying fossils, genetic evidence, and comparative anatomy sheds light on the shared ancestry of all life forms, connecting the vast diversity of species on Earth.

## Human Evolution

Exploring the evolutionary history of humans provides insights into our origins, biological adaptations, and cultural development. This area bridges biology with anthropology and archaeology, enriching our understanding of what it means to be human.

## Practical Tips for Learning Biology Effectively

Biology is a broad and sometimes complex subject, so approaching your studies strategically can make a big difference.

- **Use Visual Aids:** Diagrams, videos, and models help visualize structures and processes that are difficult to imagine.
- **Engage in Hands-On Activities:** Lab experiments and fieldwork deepen understanding by applying concepts in real-world contexts.
- **Connect Concepts:** Relate new information to what you already know to build a coherent picture of biological systems.
- **Stay Curious:** Follow your interests within biology, whether that's marine life, human health, or genetics, to stay motivated.
- **Keep Up with Advances:** Biology is a dynamic field. Reading scientific news and articles can keep you informed about breakthroughs.

Exploring the things to learn in biology not only enhances your knowledge but also develops critical thinking skills and a greater appreciation for the natural world. Whether your goal is academic, professional, or personal enrichment, diving into biology offers endless opportunities to marvel at life's complexity and interconnection.

## Frequently Asked Questions

### What are the fundamental concepts to learn in biology?

The fundamental concepts in biology include cell theory, genetics, evolution, homeostasis, energy flow, and the structure and function of biomolecules.

## **Why is learning about cell biology important?**

Cell biology is important because cells are the basic units of life, and understanding their structure and function helps explain how organisms grow, reproduce, and maintain homeostasis.

## **What role does genetics play in biology education?**

Genetics teaches how traits are inherited through DNA, helping us understand heredity, genetic variation, and the basis for evolution and many medical conditions.

## **How does studying evolution contribute to understanding biology?**

Studying evolution reveals how species change over time through natural selection, providing insights into biodiversity, adaptation, and the history of life on Earth.

## **What are biomolecules and why should they be studied in biology?**

Biomolecules such as proteins, lipids, carbohydrates, and nucleic acids are essential for life processes, and studying them helps explain cellular functions and metabolic pathways.

## **How is ecology relevant to biology learners?**

Ecology helps learners understand interactions between organisms and their environments, which is crucial for studying ecosystems, conservation, and environmental impact.

## **What biological techniques are important for students to learn?**

Important biological techniques include microscopy, DNA sequencing, PCR, electrophoresis, and bioinformatics, which enable practical understanding and research in biology.

## **Why should students learn about human physiology in biology?**

Learning human physiology helps students understand how the body systems work together to maintain health, aiding in medical knowledge and promoting wellness.

## **Additional Resources**

**\*\*Exploring Essential Topics: Things to Learn in Biology\*\***

**Things to learn in biology** encompass a vast and intricate spectrum of knowledge that spans from the microscopic to the macroscopic, covering life forms, their functions, interactions, and evolutionary history. As a foundational natural science, biology offers insights vital not only for academic pursuits

but also for practical applications in medicine, environmental science, biotechnology, and more. Understanding the critical areas within biology is indispensable for students, educators, and professionals who aim to grasp the complexities of life and its processes.

Biology's broad scope means learners must navigate various sub-disciplines, each with distinct concepts, methodologies, and terminologies. This article delves into the core topics that define biology education and research today, highlighting their relevance, interconnections, and evolving nature in the context of modern science.

## **Fundamental Concepts to Master in Biology**

The foundation of biology lies in understanding the basic units and mechanisms of life. These fundamental concepts serve as building blocks for more specialized fields and are often the first focus of biology curricula worldwide.

### **Cell Biology: The Unit of Life**

At the heart of biology is cell biology, the study of cells as the smallest structural and functional units of living organisms. Cells can be broadly categorized into prokaryotic and eukaryotic types, differing in complexity and function. Prokaryotic cells, such as bacteria, lack membrane-bound organelles, whereas eukaryotic cells, found in plants, animals, and fungi, possess distinct organelles like the nucleus, mitochondria, and endoplasmic reticulum.

Learning about cell structure, cell membrane dynamics, organelle functions, and processes like mitosis and meiosis is critical. These concepts explain how organisms grow, reproduce, and maintain homeostasis. Advances in microscopy and molecular biology have expanded our understanding of cellular processes, making cell biology a continuously evolving field.

### **Genetics and Molecular Biology**

Another pivotal area in biology is genetics, which explores heredity, gene expression, and DNA structure. The discovery of the double helix and the genetic code revolutionized biology by revealing how traits are inherited and how genetic information directs cellular activities.

Molecular biology intertwines with genetics by focusing on the molecular mechanisms that govern gene replication, transcription, and translation. Key topics include:

- DNA replication and repair mechanisms
- RNA synthesis and processing
- Protein synthesis and folding
- Genetic mutations and their implications

Understanding these processes is crucial for fields such as genetic engineering, biotechnology, and personalized medicine.

## **Exploring Interdisciplinary Biological Fields**

Biology does not exist in isolation; it intersects with other scientific disciplines, enriching its scope and applications.

### **Ecology and Environmental Biology**

Ecology studies the relationships between organisms and their environments. This sub-discipline addresses ecosystems, biodiversity, population dynamics, and the impact of human activities on natural habitats.

Given current global challenges like climate change and habitat destruction, ecology has gained prominence. Learning about trophic levels, biogeochemical cycles, and conservation strategies equips students and researchers with knowledge essential for sustainable development.

### **Evolutionary Biology**

Evolutionary biology investigates the origins and changes in species over time. It integrates genetics, paleontology, and comparative anatomy to explain natural selection, adaptation, and speciation.

Key concepts include:

- Darwinian theory of natural selection
- Genetic drift and gene flow
- Phylogenetics and evolutionary trees

This branch informs our understanding of biodiversity and organismal relationships, which is crucial for taxonomy and systematics.

### **Physiology: Understanding Function in Organisms**

Physiology focuses on the biological functions and processes within organisms. It covers systems such as the circulatory, respiratory, nervous, and endocrine systems in animals, as well as photosynthesis and nutrient transport in plants.

Studying physiology reveals how organisms maintain internal balance and respond to external stimuli. This knowledge underpins medical sciences and helps develop treatments for diseases.

## **Applied Biology: From Research to Real-Life Applications**

Beyond theoretical knowledge, biology's practical applications have transformed industries and healthcare.

### **Biotechnology and Genetic Engineering**

Biotechnology harnesses biological processes for industrial and medical purposes. Genetic engineering, a subset, involves manipulating DNA to create genetically modified organisms (GMOs), produce pharmaceuticals, or develop gene therapies.

Key learnings include:

- Recombinant DNA technology
- CRISPR and genome editing techniques
- Ethical considerations in genetic manipulation

These topics are essential for understanding modern innovations and their societal impacts.

### **Microbiology and Immunology**

Microbiology studies microorganisms such as bacteria, viruses, and fungi, which affect health, agriculture, and ecosystems. Immunology examines the immune system's function in defending against pathogens.

Current global health issues, such as pandemics, highlight the importance of these fields. Learning about pathogen biology, vaccine development, and immune responses is increasingly critical.

## **Emerging Trends and Technologies in Biology**

The rapid advancement of technology continuously reshapes biology education and research.



# Bioinformatics and Computational Biology

The integration of computer science with biology has led to bioinformatics, enabling the analysis of large datasets like genomic sequences. This field facilitates discoveries in gene function, evolutionary relationships, and disease mechanisms.

Key skills include data analysis, programming, and statistical modeling, making bioinformatics a valuable area for future biologists.

## Synthetic Biology

Synthetic biology aims to design and construct new biological parts and systems. It combines engineering principles with biology to create organisms with novel functions. This field is still emerging but promises breakthroughs in medicine, energy, and environmental remediation.

## Conclusion: Navigating the Vast Terrain of Biology

The things to learn in biology are diverse, reflecting the complexity of life itself. From the microscopic intricacies of cell function to the expansive interactions within ecosystems, biology demands a comprehensive and interdisciplinary approach. Mastery of fundamental topics like cell biology, genetics, and physiology forms the basis for exploring specialized and applied fields, including biotechnology and bioinformatics.

As the biological sciences continue to advance, embracing new technologies and addressing global challenges, the scope of what to learn in biology will inevitably expand. For learners and professionals alike, staying informed about these evolving areas is essential for contributing meaningfully to science and society.

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**things to learn in biology: things of the mind** Jiddu Krishnamurti, 1988

**things to learn in biology:** What Gives You the Right to Talk of Such Things? Flo SJourney, 2022-08-29 It is about facing your fears. It is about believing in yourself. It is about following those 'I cannot explain' feelings. It is about chasing your dreams and it is about daring, attempting and trying. It is about learning from failures and from mistakes. It is about acceptance and forgiveness. It is about putting yourself out there. It is about listening to your inner voice and it is about listening to everyone, being opened and following your heart. It is about learning new things and improving

continuously. It is about the journey and not the arriving. It is about life and it is about those 'coincidences' those 'mmm, that's a sign!'. It is about the awe of wild things, the whispers in the trees, the songs of birds, the 'silence' in the mountains, the calling in the waves, and about the sound of your steps in magical forests. It is about what you cannot explain, but you feel when you look at the starry sky. It is about our path until this moment. It is about how life works when you look back at your life. It is about perspective. It is about faith and it is about hope, strength, gratitude, willingness and putting in the work. It is about decisions, choices and interpretations. It is about the most precious currency, time. It is about the beauty of discovering for yourself, remaining curious and inquisitive. It is about work, hard work and focused work. It is about passion, discipline, commitment, habits and dedication. It is about adjusting along the way, it is about taking care of yourself, body, mind, heart and soul, and it is about helping others with what you can. It is about staying on your path. It is about letting go, trusting and patience. It is about health, healthy habits and healthy lifestyles. It is about overcoming and the power of one moment, one day. It is about the power of words and it is about the power of our imagination and creativity. It is about asking yourself, and life what's your purpose. It is about wondering and wandering whilst chasing that 'what if'. It is about being lost and it is about the purpose in striving. It is about people, all of us, what do we really want, and imagining what we can do and accomplish when we work together. It is about transparency and intentions. I feel like when we're going through a kind of inquiry like this will actually lead us to a better understanding of ourselves, and in this way we can make better decisions. For ourselves, for the ones we love, for the ones around us. It is like the gift we'll give back to life itself for the present of being here. At the least, for me, it is a cause living for it.

**things to learn in biology:** *Global Perspectives on Education Research* Lori Diane Hill, Felice J. Levine, 2018-03-14 *Global Perspectives on Education Research* echoes the breadth and scope of education research worldwide. It features the work of established and emerging scholars from a range of universities and research institutions in Africa, Europe, and North America. The book's ten chapters are organized around four themes: Education Policy, Teaching and Learning, School Context and Student Outcomes, and Assessment and Measurement. Each chapter offers cross-cultural, transnational, or comparative insights on some of the most pressing challenges and promising opportunities for improving education around the world. Across thematic areas, these perspectives shape new ways of understanding context as an influence on, and a framework for, conceptual insights into education policy and practice at the international, national, and local levels. With chapters on topics including the cultural complexities of literacy, the effect of socioeconomic inequality on student learning, and the tension between education for global competitiveness and education for global citizenship as national policy strategies, *Global Perspectives on Education Research* addresses issues and questions that will interest education researchers, educators, policy makers, and societal leaders worldwide. This volume is a publication of the World Education Research Association (WERA). WERA is an association of major national, regional, and international specialty research associations dedicated to advancing education research as a scientific and scholarly field. WERA undertakes initiatives that are global in nature and thus transcend what any one association can accomplish in its own country, region, or area of specialization.

**things to learn in biology: 11+ Science Revision Guide** Sue Hunter, 2016-05-31 Exam Board: ISEB Level: 11 Plus Subject: Science First Teaching: September 2015 First Exam: Autumn 2018 Secure the top marks in 11 plus independent school entrance exams and pre-tests and a better chance at getting into their school of choice with this essential revision guide. Complete coverage of the ISEB 11 Plus Science syllabus and stretching extra content ensures that every topic is thoroughly revised ahead of the exams. - This book covers everything required for the 11 Plus Science exam - Prepares pupils for a wide range of independent school exams and pre-tests with challenging extension material - Consolidates revision with all the key information in one place - Features helpful insight in to the exams, with examples, practical tips and advice - Tests understanding and technique with timed, levelled exam-style questions Also available for 11 Plus Science preparation: - 11 Plus Science Practice Papers ISBN 9781471849282 Revision Guides,

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**things to learn in biology:** The Nature-study Review , 1923

**things to learn in biology:** The Nature-study Review Maurice Alpheus Bigelow, Fred Lemar Charles, Elliot Rowland Downing, Anna Botsford Comstock, 1922

**things to learn in biology:** Connecting with Our Ancestors: Human Evolution Museum Experiences Shelley L. Smith, 2024-09-29 This book combines documentation and analysis of the contents of exhibits in 12 museums (Part 1) with interviews with experts involved in the creation of exhibits (Part 2) to explore variation in human evolution exhibits. To be successful, museum exhibits must make a personal connection with visitors, inspiring them to learn more. Human evolution exhibits thus need contemporary relevance. It is crucial to find ways to bind our deep past to our lives today. Presenting our story, and our collective history, some human evolution exhibits reach an audience of millions each year. An understanding of evolution is fundamental to modern biology, and a lack of knowledge of basic principles has practical consequences, including impairing reception of health messages. The goal of the volume is to stimulate discussion of how the presentation of evolution, and in particular human evolution, can be improved, contributing to scientific literacy and engagement with evolutionary science. To enhance relevance to a broader public, the author argues that incorporation of evolutionary medicine and clearer explanations of ancestry and human biological variation are needed. The surveyed museums include four in Texas, the author's home state, seven additional renowned U.S. museums, and the Natural History Museum in London. Some of the 35 interviewees are prominent academic researchers; other contribute their expertise in design, art, and education. Topics discussed include exhibit content and changing exhibits, the ideal vs. reality in exhibit creation, self-assessments of exhibits, education and "edutainment," and exhibit content intersections with religion, politics, and the history of representations of race / human biological variation. A bibliographic essay, appendices, and text boxes provide additional information for readers desiring more in-depth study. This volume is of interest to a wide range of readers in anthropology, museum studies, and science communication.

**things to learn in biology:** Cassell's New Popular Educator , 1920

**things to learn in biology:** Interactive School Science 6 ,

**things to learn in biology:** School Science and Mathematics , 1908

**things to learn in biology:** The Laws of Living Things Edward John von Komorowski Menge, 1927

**things to learn in biology:** Sociobiology: Sense or Nonsense? Michael Ruse, 2013-03-09 In June 1975, the distinguished Harvard entomologist Edward O. Wilson published a truly huge book entitled, *Sociobiology: The New Synthesis*. In this book, drawing on both fact and theory, Wilson tried to present a comprehensive overview of the rapidly growing subject of 'sociobiology', the study of the biological nature and foundations of animal behaviour, more precisely animal social behaviour. Although, as the title rather implies, Wilson was more surveying and synthesising than developing new material, he compensated by giving the most thorough and inclusive treatment possible, beginning in the animal world with the most simple of forms, and progressing via insects, lower invertebrates, mammals and primates, right up to and including our own species, *Homo sapiens*. Initial reaction to the book was very favourable, but before the year was out it came under withering attack from a group of radical scientists in the Boston area, who styled themselves 'The Science for the People Sociobiology Study Group'. Criticism, of course, is what every academic gets (and needs!); but, for two reasons, this attack was particularly unpleasant. First, not only were Wilson's ideas attacked, but he himself was smeared by being linked with the most reactionary of political thinkers, including the Nazis.

**things to learn in biology:** Math and Bio 2010 Lynn Arthur Steen, 2005 Math and bio 2010 grew out of 'Meeting the Challenges: Education across the Biological, Mathematical and Computer Sciences,' a joint project of the Mathematical Association of America (MAA), the National Science Foundation Division of Undergraduate Education (NSF DUE), the National Institute of General

Medical Sciences (NIGMS), the American Association for the Advancement of Science (AAAS), and the American Society for Microbiology (ASM).--Foreword, p. vi

**things to learn in biology: Bird-lore** , 1914 Vols. 5-28 include its educational leaflets.

**things to learn in biology: Bringing Science to Life** Patricia Corrigan, 2007-11 Science explains everything! Science is fun! An extension of an action-packed visit to the Saint Louis Science Center, Bringing Science to Life will entertain and educate kids of all ages. Patricia Corrigan fills its pages with activities, games, hands-on experiments, word definitions, fun facts, short profiles of actual scientists and their jobs, and many other elements. Corrigan connects the world of science not only to the Saint Louis Science Center, but also to the movers and shakers of science throughout the region.

**things to learn in biology: Crossing the Border from Preservice to Inservice Science**

**Teacher** Dennis W. Sunal, Cynthia S Sunal, Justina A. Ogoto, 2024-09-01 This RISE volume examines various approaches researchers have used to induct new teachers and mitigate the high turnover rates. Crossing the Border From Preservice to Inservice Science Teacher: Research-Based Induction as Professional Development offers readers various tested strategies for supporting and retaining early-career science teachers. Some of the common tested effective strategies involve increasing teacher reflection, fostering teacher leadership, developing collegial collaboration, strengthen teacher identity, introducing PLC involvement in both preservice and inservice settings, expanding IHE teacher preparation to more deeply include classroom teachers, using graduate coursework to introduce induction PD and longterm follow-up of early career teachers. The contributing authors explain different approaches successfully implemented in various settings and their impact on developing high-quality teachers with the self-efficacy to positively impact student learning. The ideas provided in the volume can be replicated in-part and whole in other settings with the potential for similar results.

**things to learn in biology: Audubon** , 1915

**things to learn in biology: Beyond Human Nature** Jesse J. Prinz, 2015-11-09 "A loud counterblast to the fashionable faith of our times: that human nature is driven by biology . . . urgent and persuasive."—Sunday Times (London) In this era of genome projects and brain scans, it is all too easy to overestimate the role of biology in human psychology. But in this passionate corrective to the idea that DNA is destiny, Jesse Prinz focuses on the most extraordinary aspect of human nature: that nurture can supplement and supplant nature, allowing our minds to be profoundly influenced by experience and culture. Drawing on cutting-edge research in neuroscience, psychology, and anthropology, Prinz shatters the myth of human uniformity and reveals how our differing cultures and life experiences make each of us unique. Along the way he shows that we can't blame mental illness or addiction on our genes, and that societal factors shape gender differences in cognitive ability and sexual behavior. A much-needed contribution to the nature-nurture debate, Beyond Human Nature shows us that it is only through the lens of nurture that the spectrum of human diversity becomes fully and brilliantly visible.

**things to learn in biology: Talking Nets** James A. Anderson, Edward Rosenfeld, 2000-02-28

Surprising tales from the scientists who first learned how to use computers to understand the workings of the human brain. Since World War II, a group of scientists has been attempting to understand the human nervous system and to build computer systems that emulate the brain's abilities. Many of the early workers in this field of neural networks came from cybernetics; others came from neuroscience, physics, electrical engineering, mathematics, psychology, even economics. In this collection of interviews, those who helped to shape the field share their childhood memories, their influences, how they became interested in neural networks, and what they see as its future. The subjects tell stories that have been told, referred to, whispered about, and imagined throughout the history of the field. Together, the interviews form a Rashomon-like web of reality. Some of the mythic people responsible for the foundations of modern brain theory and cybernetics, such as Norbert Wiener, Warren McCulloch, and Frank Rosenblatt, appear prominently in the recollections. The interviewees agree about some things and disagree about more. Together, they tell the story of

how science is actually done, including the false starts, and the Darwinian struggle for jobs, resources, and reputation. Although some of the interviews contain technical material, there is no actual mathematics in the book. Contributors James A. Anderson, Michael Arbib, Gail Carpenter, Leon Cooper, Jack Cowan, Walter Freeman, Stephen Grossberg, Robert Hecht-Neilsen, Geoffrey Hinton, Teuvo Kohonen, Bart Kosko, Jerome Lettvin, Carver Mead, David Rumelhart, Terry Sejnowski, Paul Werbos, Bernard Widrow

**things to learn in biology:** This Thing Called the Future J.L. Powers, 2011-04-12

Fourteen-year-old Khosi's mother wants her to get an education to break out of their South African shantytown, although she herself is wasting away from an untreated illness, while Khosi's grandmother, Gogo, seeks help from a traditional Zulu healer.

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