

An abstract landscape painting. The upper two-thirds of the image are dominated by various shades of green, from a vibrant lime green to a dark, almost black green, with visible brushstrokes and a textured appearance. The lower third of the image is a solid, deep red or maroon color, also with a textured, slightly grainy surface. The transition between the green and red areas is somewhat irregular, with some darker, more complex textures in the middle ground.

Timothy Walker
PLANTS
A Very Short Introduction

OXFORD

Plants A Very Short Introduction

Matthew Cobb



Plants A Very Short Introduction:

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provide centres of biological and cultural diversity hold deposits of minerals and provide both active and contemplative recreation Yet mountains are also significantly affected by climate change as melting and retreating glaciers show Given the manifold goods and services which mountains provide to the world such changes are of global importance In this Very Short Introduction Martin Price outlines why mountains matter at the global level and addresses the existing and likely impacts of climate change on mountain hydrological and ecological systems Considering the risks associated with the increasing frequency of extreme events and natural hazards caused by climate change he discusses the implications for both mountain societies and wider populations and concludes by emphasizing the need for greater cooperation in order to adapt to climate change in our increasingly globalized world

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subject involves the combination of many areas of science eg anatomy cosmology physics mechanics and engineering design to piece together the evidence of how animal plant life evolved on earth and why it did in the way that it did David Norman also talks about the part that informed speculation and luck play in major discoveries Starting with ancient myths of dinosaur like monsters dragons and the history of the discovery of dinosaurs he goes on to discuss the evolution of Dinosaurs and the many different techniques used to understand them including the latest virtual reality animation sequences and engineering design analysis

Smell: A Very Short Introduction Matthew Cobb,2020-05-28 Our sense of smell or olfaction as it is technically known is our most enigmatic sense It can conjure up memories taking us back to very specific places and emotions whilst powerful smells can induce strong feelings of hunger or nausea In the animal kingdom smell can be used to find food a mate or a home to sense danger and to send and receive complex messages with other members of a species Yet despite its fundamental importance in our mental life and in the existence of all animals our scientific understanding of how smell works is limited In this Very Short Introduction Matthew Cobb describes the latest scientific research on smell in humans and other mammals in insects and even in fish He looks at how smell evolved how animals use it to navigate and communicate and disorders of smell in humans Understanding smell especially its neurobiology has proved a big challenge but olfactory science has revealed genetic factors that determine what we can and cannot smell and why some people like a given smell while others find it unbearable He ends by considering future treatments for smell disorders and speculating on the role of smell in a world of robots

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Charlesworth, Deborah Charlesworth, 2017-06-15 Less than 450 years ago all European scholars believed that the Earth was at the centre of a Universe that was at most a few million miles in extent and that the planets sun and stars all rotated around this centre Less than 250 years ago they believed that the Universe was created essentially in its present state about 6000 years ago Even less than 150 years ago the view that living species were the result of special creation by God was still dominant The recognition by Charles Darwin and Alfred Russel Wallace of the mechanism of evolution by natural selection has completely transformed our understanding of the living world including our own origins In this Very Short Introduction Brian and Deborah Charlesworth provide a clear and concise summary of the process of evolution by natural selection and how natural selection gives rise to adaptations and eventually over many generations to new species They introduce the central concepts of the field of evolutionary biology as they have developed since Darwin and Wallace on the subject over 140 years ago and discuss some of the remaining questions regarding processes They highlight the wide range of evidence for evolution and the importance of an evolutionary understanding for instance in combating the rapid evolution of resistance by bacteria to antibiotics and of HIV to antiviral drugs This reissue includes some key updates to the main text and a completely updated Further Reading section ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

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A Cultural History of Plants in the Modern Era covers the period from 1920 to today a time when population growth industrialization global trade and consumerism have fundamentally reshaped our relationship with plants Advances in agriculture science and technology have revolutionised the ways we feed ourselves whilst urbanization and industrial processing have reduced our direct connection with living plants At the same time our understanding of both ecology and conservation have greatly increased and our appreciation of the meanings and aesthetics of plants continue to suffuse art and everyday culture The modern era has witnessed a revolution in both the valuation and the destruction of the natural world more than ever before we understand that the vitality of our relationship with plants will shape our future The 6 volume set of the Cultural History of Plants presents the first comprehensive history of the uses and meanings of plants from prehistory to today The themes covered in each volume are plants as staple foods plants as luxury foods trade and exploration plant technology and science plants and medicine plants in culture plants as natural ornaments the representation of plants Stephen Forbes is an independent scholar and writer based in Australia Volume 6 in the Cultural History of Plants set General Editors Annette Giesecke University of Delaware USA and David Mabberley University of Oxford UK

Plant Conservation Timothy

Walker,2013-12-03 Plants ability to turn sunlight into energy makes them the basis for all life without them there is no life And they are more than just a food source they provide us with fuel fibers and pharmaceuticals Global warming and the destruction of natural habitats are a serious threat to many plants and there are worldwide efforts to mitigate the disaster Plant Conservation tackles this essential topic head on Timothy Walker as the director of the Oxford Botanical Garden a leader in the field of plant conservation plays a key role in this effort He highlights what is happening now from cataloging the world s flora to conservation efforts like protecting plants from overcollecting He also shows home gardeners how they can become involved whether by growing their own food to decrease reliance on large agriculture or by making smart plant choices by growing natives and avoiding invasives Plant Conservation treats a critical topic in an accessible and optimistic way It is required reading for students professionals and anyone with a keen interest in the importance of plants

Biodiversity John Spicer,2021-05-06 Our future is closely tied to that of the variety of life on Earth and yet there is no greater threat to it than us From population explosions and habitat destruction to climate change and mass extinctions John Spicer explores the causes and consequences of our biodiversity crisis In this revised and updated edition he examines how grave the situation has become over the past decade and outlines what we must do now to protect and preserve not just nature s wonders but the essential services that biodiversity provides for us seemingly for nothing **The Ultimate Guide**

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Larsson,2018-03-06 This richly illustrated book provides an in depth natural history of the most poisonous plants on earth covering everything from the lethal effects of hemlock and deadly nightshade to the uses of such plants in medicine ritual and chemical warfare Dust jacket *Science* John Michels (Journalist),1914 **Teaching Biology in Schools** Kostas Kampourakis,Michael Reiss,2018-05-23 An indispensable tool for biology teacher educators researchers graduate students and practising teachers this book presents up to date research addresses common misconceptions and discusses the pedagogical content knowledge necessary for effective teaching of key topics in biology Chapters cover core subjects such as molecular biology genetics ecology and biotechnology and tackle broader issues that cut across topics such as learning environments worldviews and the nature of scientific inquiry and explanation Written by leading experts on their respective topics from a range of countries across the world this international book transcends national curricula and highlights global issues problems and trends in biology literacy

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