

Unit 4 Ecosystems

Topic 4.3 Intruders in an ecosystem

Getting started

Imagine a new species of cactus is introduced in the Sonoran Desert. What might happen to saguaro cacti and other species in the Sonoran Desert?

Ans: The introduced species 'will take over'. Because it grows and reproduces more quickly than the native saguaro, then there will be less light, water and space for the saguaros to grow. If the saguaros disappear, or are reduced in numbers, this will reduce the numbers of other species that depend on the saguaros, such as the Gila woodpecker, termites, sap beetles and so on.

Questions in page 141

1 What is a 'native species'?

Ans: A species that has always lived in the country that it 'belongs' to.

A native species is indigenous to a given region or ecosystem if its presence in that region is the result of only local natural evolution

2 Name some native species in your country.

Ans: The Zoological Survey of India (ZSI), with its headquarters in Kolkata and 16 regional stations is responsible for surveying the faunal resources of India. Possessing a tremendous diversity of climate and physical conditions, India has great variety of fauna, numbering 92,037 species, of which insects alone include 61,375 species. It is estimated that about two times that number of species still remain to be discovered in India alone.

The mammals include the majestic elephant, the gaur or Indian bison - the largest of existing bovines, the great Indian rhinoceros, the gigantic wild sheep of the Himalayas, the swamp deer, the thamin spotted deer, nilgai, the four-horned antelope, the Indian antelope or black-buck - the only representatives of these genera. Among the cats, the tiger and lion are the most magnificent of all; other splendid creatures such as the clouded leopard, the snow leopard, the marbled cat, etc., are also found. Several birds, like pheasants, geese, ducks, mynahs, parakeets, pigeons, cranes, hornbills and sun birds inhabit forests and wetlands.

Rivers and lakes harbour crocodiles and gharials. The salt-water crocodile is found along the eastern coast and in the Andaman and Nicobar Islands. The great Himalayan range has a very interesting variety of fauna that includes the wild sheep and goats, markhor, ibex, shrew and tapir. The panda and the snow leopard are found in the upper reaches of the mountains.

3 Suggest why it is difficult to eradicate an introduced species.

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Resources in Education ,2001-10 *Sustainable Project-Based Learning* Brad Sever,2022-03-22 This essential guide shares a five step process for designing implementing and assessing sustainable project based learning SPBL units while ensuring students gain surface deep and transfer level knowledge Brad Sever draws from his daily work as a practitioner to deliver practical strategies for creating meaningful learning experiences that join academic growth with social emotional skill development all supported by the power of professional learning communities Use this book to help increase authentic learning for your students Learn the benefits of project based learning PBL and social emotional learning SEL to student growth and academic achievement Access a five step process for planning integrating and sustaining a comprehensive SPBL framework in your curriculum Receive reproducible tools and templates you can use independently or collaboratively to maximize student engagement and learning Reflect with end of chapter questions to enhance your understanding of the content Understand how to promote transfer learning skills through connections to real world experiences Contents Introduction Part I The What and Why of Sustainable Project Based Learning Chapter 1 Defining Sustainable Project Based Learning Chapter 2 Reviewing the Seven PBL Design Elements Chapter 3 Maintaining a Sustainable Relationship With Project Based Learning Chapter 4 Integrating Social and Emotional Learning Into SPBL Units Part II The How of Sustainable Project Based Learning Chapter 5 Step 1 Planning the SBPL Unit Chapter 6 Step 2 Developing SPBL Assessments Chapter 7 Step 3 Establishing a Clear Goal for Student Learning Chapter 8 Step 4 Conducting Teacher Action Research Chapter 9 Step 5 Reflecting Refining and Celebrating Chapter 10 Transferring Learning Through Three Simultaneous Experiences Appendix A Glossary of Key Terms Appendix B Protocol Library Appendix C Example SPBL Unit Plans References and Resources Index

Readers' Guide to Periodical Literature ,1923 **A Guide to Ontario School Law** Benjamin Kutsyuruba,David Burgess,Keith Walker,J. Kent Donlevy,2014-05 A Guide to Ontario School Law is a comprehensive non partisan fair reading of provincial educational statutes regulations and relevant policies that will be a first aid and reference to the lay reader Our goal is to provide an up to date accessible and user friendly guide to various legal parameters for teachers aspiring teachers trustees school administrators central office administration parents and interested community members In particular the resources and insights in this guide are aimed at helping teacher candidates to develop literacy in educational law and policy and ultimately to successfully transition from teacher education programs into teaching careers **Microeconomics Study Guide** David C. Colander,Colander David,Douglas Copeland,Jenifer Gamber,2003-07 An examination of microeconomic models in practical use Microeconomics explores the strengths and weaknesses of standard models of microeconomics and how they are actually used in policy Chapters discuss the basics of microeconomics foundations of supply and demand market structure and policy monopolistic competition distribution of income and the ways economic reasoning is applied to real world policy Sidebars reinforce the economic tools presented while more than four hours of website accessible video

provide interactive exercises and animated tutorials **Research in Education** ,1974 The Educator-journal ,1900

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[The Complete Guide to Service Learning](#) Cathryn Berger Kaye, 2010-03-18. *The Complete Guide to Service Learning* is the go-to resource in the fast-growing field of service learning. It is an award-winning treasury of service activities, community service project ideas, quotes, reflections, and resources that can help teachers and youth workers engage young hearts and minds in reaching out and giving back. Author and internationally known service learning expert Cathryn Berger Kaye presents service learning, its importance, steps, essential elements, and challenges within a curricular context and organized by theme. This second edition maintains the easy-to-use format of the original and is enhanced with updated information on service learning programs and pedagogy. Benefits include:

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