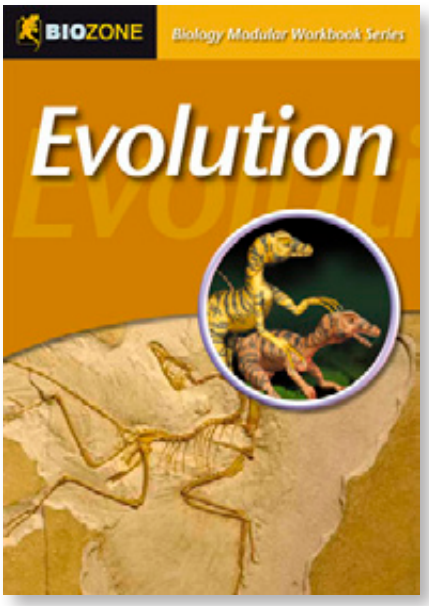
Evolution



Evolution

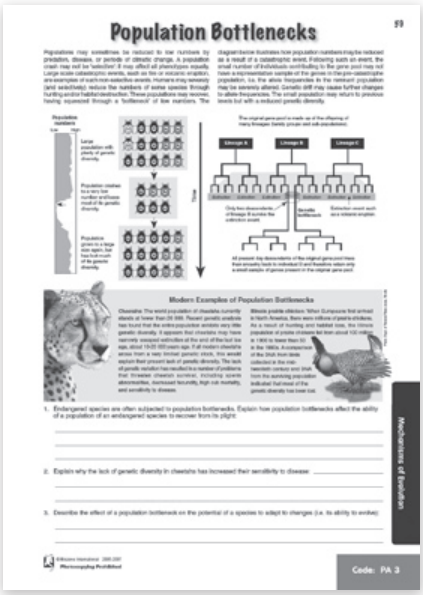
A fresh approach to the teaching of evolutionary principles at this level. Through a variety of engaging and thought-provoking activities, students are invited to explore and critically evaluate the wealth of evidence for our current understanding of evolution.

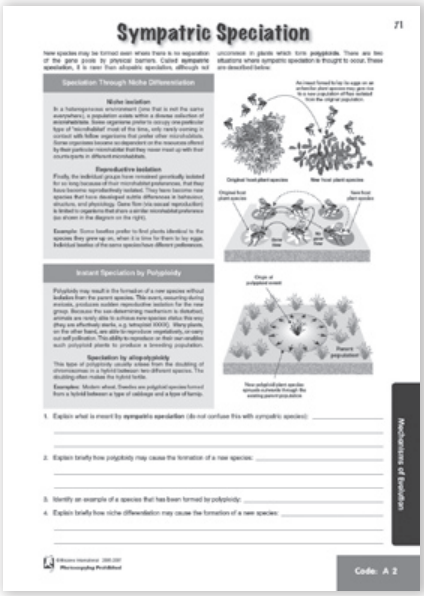
Suitability:

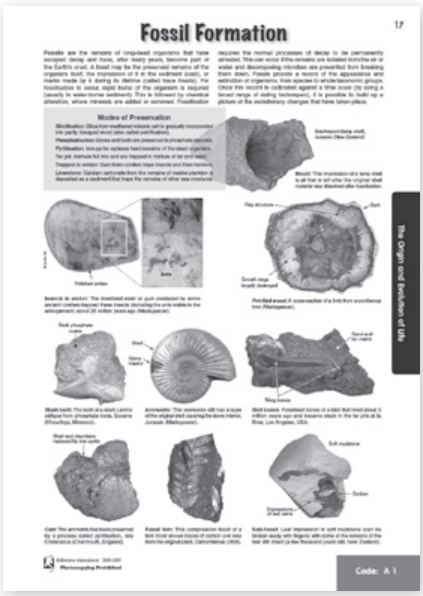
- Grades 10-12
- Community College

ISBN: 1-877329-88-6 Pages: 100

Biozone's unique formula encourages self direction, while dovetailing with traditional resources.







Chapters

- The Origin & Evolution of Life
- Mechanisms of Evolution
- Patterns of Evolution

Features

- **Introduction to the topic:** A concise introduction to the concepts in the activity.
- **Easy to understand diagrams:** Highly visual, clearly annotated diagrams improve the accessibility of information.
- **Consolidation and branching out:** Activities provide information to consolidate basic knowledge, while allowing scope for exploring. Differential instruction becomes easier and students at all levels are encouraged to be 'thinkers'.
- **Write-on format:** Activities provide information to consolidate basic knowledge, while allowing scope for exploring.
- **Tear-out pages:** Each page has a perforation to allow easy removal for marking, or placement in a ring binder.
- **Activity Code:** Each activity is coded to identify the skills required for its completion.

BIOZONE

Fact Sheet

Evolution

Content Overview

THE ORIGIN & EVOLUTION OF LIFE

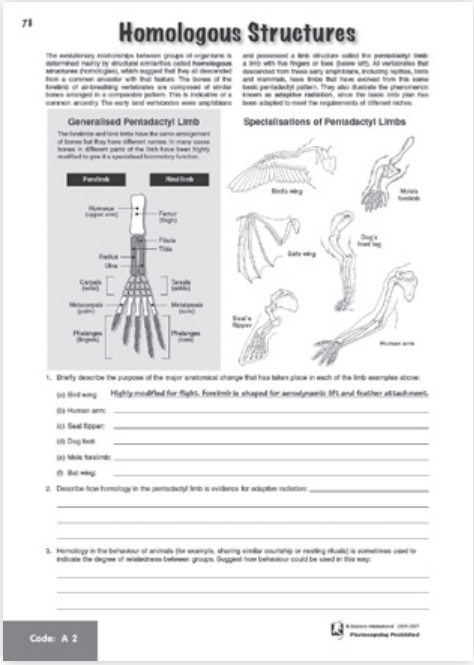
- Life in the Universe
- The Origin of Life on Earth
- Prebiotic Experiments
- The Origin of Eukaryotic Cells
- The History of Life on Earth
- Fossil Formation
- The Fossil Record
- Dating Fossils
- DNA Hybridisation
- Immunological Studies
- Other Evidence for Evolution
- The Evolution of Novel Forms
- Comparative Anatomy
- Vestigial Organs
- Biogeographical Evidence
- Oceanic Island Colonisers
- Continental Drift and Evolution

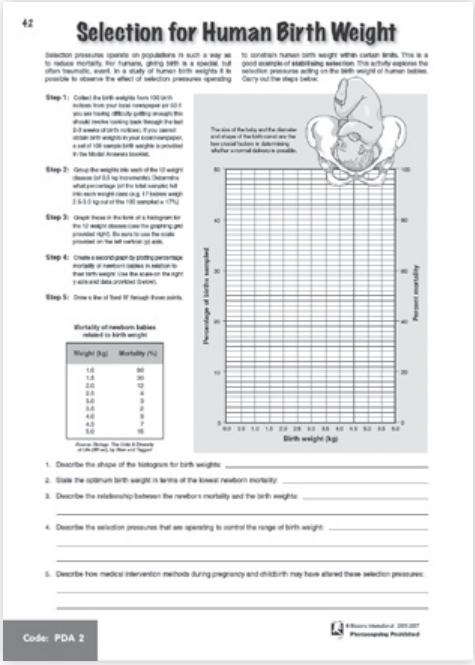
MECHANISMS OF EVOLUTION

- Genes and Evolution
- Adaptations and Fitness
- The Modern Theory of Evolution
- Darwin's Theory
- Natural Selection
- Selection for Human Birth Weight
- Industrial Melanism
- Heterozygous Advantage
- Sexual Selection
- Darwin's Finches
- Gene Pools and Evolution
- Gene Pool Exercise
- Population Genetics Calculations
- Analysis of a Squirrel Gene Pool
- Changes in a Gene Pool
- The Founder Effect
- Population Bottlenecks
- Genetic Drift
- Artificial Selection
- Polyploidy in the Evolution of Wheat
- The Species Concept
- Reproductive Isolation
- Allopatric Speciation
- Sympatric Speciation
- Evolution in Bacteria
- Stages in Species Development
- The Species Life Cycle

PATTERNS OF EVOLUTION

- Patterns of Evolution
- The Rate of Evolutionary Change
- Homologous Structures
- Convergent Evolution
- Coevolution
- Pollination Syndromes
- Geographical Distribution
- Adaptive Radiation in Mammals
- Adaptive Radiation in Ratites
- Origin of New Zealand Parrots
- Adaptive Radiation in Wrens
- Evolution in Springtails
- Ancient New Zealand Landscapes
- Evolution in NZ Invertebrates
- Evolution in *Hebe*
- Extinction
- Causes of Mass Extinctions





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