

Big Picture

Reptiles are four-legged vertebrates that lay amniotic eggs. They are ectothermic and have many adaptations for living on land such as tough skin and efficient lungs. Reptiles reproduce sexually and have internal fertilization, and their amniotic eggs have hard shells so that they can be laid on land. Reptiles are placed in four orders, and all are descendants of sauropsids.

Key Terms

Reptile: Tetrapod vertebrate that produces amniotic eggs.

Tetrapod: Vertebrate with 4 limbs.

Keratin: A tough protein in the skin, feathers, nails, and other parts of tetrapod vertebrates.

Diaphragm: Muscle under lungs that control breathing.

Ectothermy: Body temperature is controlled from the outside through behavioral changes such as basking in the sun.

Cloaca: Body cavity that stores waste/gametes and has an opening that allows them to leave the body.

Amniote: Animal that produces eggs with internal membranes that allow gases but not water to pass through so the embryo can breathe without drying out (reptile, bird, or mammal).

Sauropsid: Early amniote that evolved into reptiles.

Synapsid: Early amniote that evolved into mammals.

Structure & Function

Reptiles have more adaptations for living on dry land than amphibians do.

- Skin has very tough **keratin**; protects reptiles and prevents water loss.
- Breathe through lungs only
 - Breathing is controlled by **diaphragm**
- **Ectothermic**
 - Can absorb heat energy from the environment, so they don't need as much food
- Have hearts with 3 or 4 chambers and good sense of eyesight and smell

Reproduction

- Most reptiles reproduce sexually, fertilization occurs internally
 - Males pass sperm from their **cloaca** into females
 - Female release fertilized eggs through the cloaca and usually don't take care of the eggs or the hatchlings
- Eggs have hard shells and contain food to protect and nourish embryos
- Baby reptiles look like small versions of adults - no larval stage

Classification

Order	Characteristics	Example
Crocodylia	4 sprawling legs used to gallop; teeth are replaced throughout life; strong jaws; more advanced brain and greater intelligence than other reptiles; 4-chambered heart	crocodiles, alligators, caimans, gharials
Sphenodontia	Least specialized of all reptiles; brain very similar to amphibian brain; 3-chambered heart that's more primitive than the hearts of other reptiles.	tuataras
Squamata (lizards, snakes)	Lizards: 4 legs for running/climbing; can swim; change color when threatened; 3-chambered heart. Snakes: no legs; flexible jaw for swallowing prey whole; some inject poison into their prey through fangs; 3-chambered heart.	lizards, snakes
Testudines	4 legs for walking; hard shell covering most of their body; 3-chambered heart	turtles, tortoises, terrapins

Evolution & Ecology

Evolution

2 types of early **amniotes**: **synapsids** and **sauropsids**

- Sauropsids evolved into reptiles (315 mya)
- After Mesozoic Era, dinosaurs went extinct, but surviving reptiles evolved into modern reptiles

Ecology

- Reptiles live all around the world
- Most reptiles are carnivores, but some turtles are herbivores

Section Reptiles Study Guide

RS Peters



Section Reptiles Study Guide:

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Table of Contents Section Reptiles Study Guide

1. Understanding the eBook Section Reptiles Study Guide
 - The Rise of Digital Reading Section Reptiles Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Section Reptiles Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Section Reptiles Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section Reptiles Study Guide
 - Personalized Recommendations
 - Section Reptiles Study Guide User Reviews and Ratings
 - Section Reptiles Study Guide and Bestseller Lists

5. Accessing Section Reptiles Study Guide Free and Paid eBooks
 - Section Reptiles Study Guide Public Domain eBooks
 - Section Reptiles Study Guide eBook Subscription Services
 - Section Reptiles Study Guide Budget-Friendly Options
6. Navigating Section Reptiles Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Section Reptiles Study Guide Compatibility with Devices
 - Section Reptiles Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section Reptiles Study Guide
 - Highlighting and Note-Taking Section Reptiles Study Guide
 - Interactive Elements Section Reptiles Study Guide
8. Staying Engaged with Section Reptiles Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section Reptiles Study Guide
9. Balancing eBooks and Physical Books Section Reptiles Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section Reptiles Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Section Reptiles Study Guide
 - Setting Reading Goals Section Reptiles Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Section Reptiles Study Guide
 - Fact-Checking eBook Content of Section Reptiles Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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