DIRECTED READING

- Reptiles and Birds

► Section 35-1: The Reptilian Body

Reptiles Share Several Key Characteristics

Complete each statement by underlining the correct term or phrase in the brackets.

- 1. Reptiles have strong, bony skeletons and toes [with / without] claws.
- 2. Reptiles are [endothermic / ectothermic].
- **3.** The skin of reptiles is [dry / moist].
- **4.** The eggs of reptiles [are almost watertight / are just like birds' eggs].
- 5. Reptiles respire through [lungs and gills / well-developed lungs].
- 6. The hearts of most reptiles are [completely / partly] divided by a septum.
- 7. Reptiles reproduce by [internal / external] fertilization.

Read each question, and write your answer in the space provided.

8. How do reptiles respond to cold weather?					
9.	Why must reptiles depend upon heat from their surroundings?				
10.	Why are reptiles better able to move on land than amphibians?				

A Key Adaptation to Terrestrial Life Is Water Retention

	the space provided, write the letter of st matches the term or phrase.	the description that					
	11. amnion	a. allows oxygen to enter the egg and carbon dioxide to leave the egg					
	12. yolk sac	b. a membrane that encloses the embryo within a watery environment					
	13. allantois 14. chorion	c. contains the developing embryo's food supply					
	14. Chorion	d. a membrane-covered cavity that stores waste products from the embryo and serves as the embryo's organ for gas exchange					
Re	ptiles Need More Oxygen Than	Amphibians					
Ма	rk each statement below T if it is true	or F if it is false.					
	15. Reptiles need more oxyg	en than amphibians because reptiles are larger.					
	16. The small, grape-shaped surface area of a reptile'	chambers called alveoli increase the respiratory s lungs.					
	17. Strong muscles attached the lungs.	to the rib cage of reptiles move air into and out of					
	18. All reptiles have a septur ventricles of the heart.	m that completely divides the left and right					
Re	ptiles Have Internal Fertilizatio	on					
	the space provided, explain how the te meaning.	erms in each pair differ					
19.	oviparous, ovoviviparous						
20.	internal fertilization, external fertiliz	ation					

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► Section 35-2: Today's Reptiles

Lizards and Snakes Have a Unique Jaw Design

Read each question, and write your answer in the space provided.

1.	What is the distinguishing characteristic of snakes and lizards?					
2.	Why is it likely that snakes evolved from lizards?					
	Transita analysis Isili Alasia massa					
	How do snakes kill their prey?					
! .	What are the four families of venomous snakes?					
·	What is a pit organ, and how does it help the timber rattlesnake catch prey?					
).	What are Jacobson's organs, and how do they help the timber rattlesnake catch prey?					

Other Orders of Reptiles Are Less Diverse

In the space provided, explain how the terms in each pair differ in meaning.

7.	turtle, tortoise						
8.	carapace, plastron						
Rea	ad each question, and write your answer in the space provided.						
9.	Why are the eyes of crocodiles and alligators on the sides of the head, and why are the nostrils on top of the snout?						
10.	What is the difference between the order Crocodilia and the other reptiles in the way they care for their young?						
11.	What is a tuatara?						

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► Section 35-3: Characteristics and Diversity of Birds

Birds Share Several Key Characteristics

Complete each statement by underlining the correct term or phrase in the brackets.

- 1. The wings of birds are modified from [forelimbs / ribs and breastbones].
- 2. The feet and legs of birds are covered with [feathers / scales].
- **3.** The bones of birds are [lightweight / made of cartilage].
- **4.** The metabolism of birds is [ectothermic / endothermic].
- **5.** Birds have an [inefficient / highly efficient] respiratory system.
- **6.** The ventricles of birds are [completely / partially] divided by the septum.

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, •	Distinguish between contour feathers and down feathers.
8.	Why do birds pull their feathers through their beaks in a process called preening?
9.	Why are birds so light compared with similarly sized mammals?
10.	Why do birds need to maintain a higher body temperature than do mammals?
11.	What features of a bird's respiratory system make it highly efficient?

12.	How do birds benefit f	rom having a septum that comple	tely divides the ventricle?			
Birds Are Adapted for Different Ways of Life						
	ite the correct bird type at to its characteristics.	from the list below in the space				
hire	ds of prev	long-legged waders	songhirds			

birds of prey ducks hummingbirds		long-legged waders parrots	songbirds woodpeckers	
	13.	short, thick, strong beak for seed cracking		
	14.	legs so small it cannot walk; tiny feet		
	15.	a strong, chisel-like beak		
	16.	strong toes, two facing forward adapted for perching, climbing,	,	
	17.	powerful talons and a curved, pointed beak		
	18.	a long, flattened, rounded bill; three toes linked by webs		
-	19.	long legs; toes spread out over large surface to support bird on soft surfaces		