Name Date

## Chapter Primate Evolution

## **Chapter Assessment**

Class

## **Reviewing Vocabulary**

Complete the manage				41.000 01.000
haplorhines		correct term on the appart and australopithecines	_	primates
hominids	prehensile tail	opposable thumb	Cro-Magnon	
A distinctive charac	eteristic of humans is	(1)	locomotic	on, the ability to
walk on two legs in an	upright position. And	ther characteristic that h	umans share with m	ost
(2)	is the abi	lity to touch the thumb t	to the forefinger. Ca	lled the
(3)	, it permi	its objects to be tightly gr	rasped.	
Anthropologists are	e also concerned with	the origin of humans. P	rimates are classified	l in two groups,
the strepsirrhines and t	he <b>(4)</b>	The st	repsirrhines are sma	all-bodied and
include the lemurs and	pottos. The other gr	oup can be divided into (	Old World monkeys	, New World
monkeys, and hominoi	ds. Hominoids includ	le the humanlike, bipedal	primates such as th	e apes, chim-
panzees, and gorillas. N	New World monkeys	are entirely arboreal. Th	eir success in the tre	e tops can be par-
tially attributed to their	r <b>(5)</b>	, which fu	inctions almost like	an extra hand,
enabling them to tightl	y grasp branches.			
Modern humans an	nd humanlike fossils an	re classified as <b>(6)</b>		Based on
fossil evidence and biod	chemical evidence, it	is believed that apes and	humans began to ev	olve about
30 million years ago, de	eveloping along differ	rent paths but arising from	m the same common	n ancestor. In
1924, Raymond Dart d	iscovered a skull with	both apelike and human	characteristics. The	e skull derived
from the first of several	African primates, nov	w collectively referred to	as <b>(7)</b>	,
which show both huma	ınlike and apelike qua	lities. <i>Homo sapiens</i> may l	nave first appeared b	etween 100 000
and 500 000 years ago.	The first of the speci	es to have communicated	l through spoken la	nguage appeared
around 100 000 years a	go. They have been r	named <b>(8)</b>	A	bout 35 000 years
ago, these disappeared	from the fossil record	l as a group called (9)		evolved.

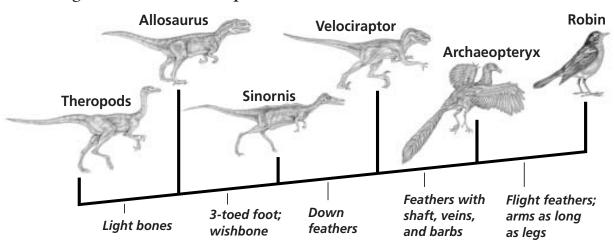
'n your textbook, read about how living things are classified.

Examine the table showing the classification of four organisms. Then answer the questions.

Taxon	Green Frog	Mountain Lion	Domestic Dog	Human
Kingdom Phylum Class Order Family Genus Species	Animalia Chordata Amphibia Anura Ranidae <i>Rana</i> <i>Rana clamitans</i>	Animalia Chordata Mammalia Carnivora Felidae Felis Felis concolor	Animalia Chordata Mammalia Carnivora Canidae <i>Canis</i> <i>Canis familiaris</i>	Animalia Chordata Mammalia Primates Hominidae Homo Homo sapiens

16.	Which taxon includes the most specific characteristics?					
17.	Which taxon includes the broadest characteristics?					
18.	Which taxon includes more species, an order or a family?					
19.	Which taxon includes only organisms that can successfully interbreed?					
20.	If two organisms belong to the same family, what other taxonomic groups do the organisms have in common.					
21.	Which two organisms in the chart are most closely related? Explain.					
22.	To which taxa do all four organisms belong?					
23.	Which class does not include animals that have hair or fur?					
24.	What is the order, family, and genus of a human?					
25.	Using the information in the chart, what can you conclude about the classification taxa of an organism with the scientific name <i>Rana temporaria?</i>					

Jse the cladogram to answer the questions.



- **6.** What five probable ancestors of the modern bird (robin) are shown on the cladogram?
- **7.** Which dinosaur is probably the most recent common ancestor of *Velociraptor* and *Archaeopteryx*?
- **8.** Which traits shown on the cladogram are shared by *Archaeopteryx* and modern birds?