

CHAPTER

18

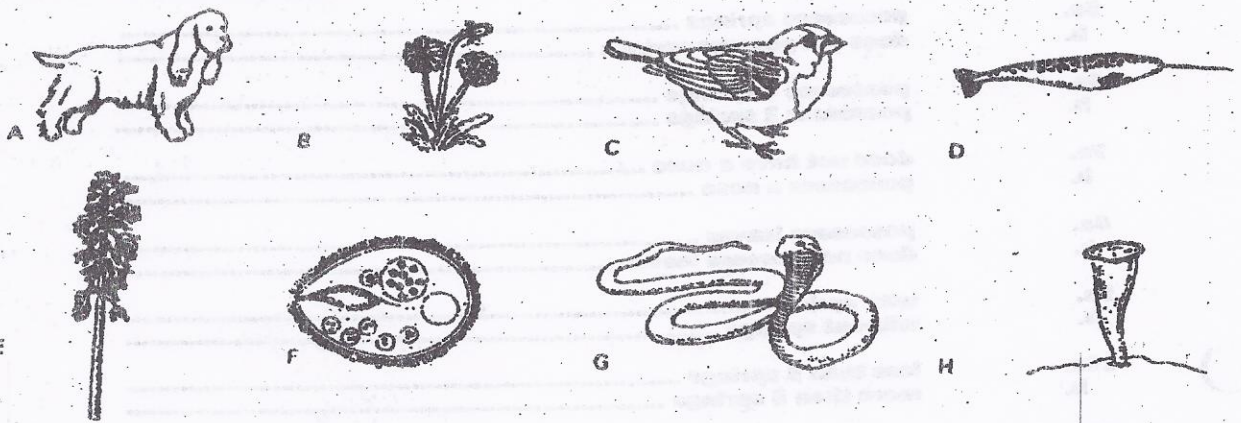
Diversity and Classification

Extension

The Classification Key

When biologists find life forms that they cannot identify, they use a classification key that aids identification. It is a kind of road map by which a person can find the scientific name of an organism.

Study the diagrams below showing various organisms. Then determine the scientific and common names of each of these organisms by using the key below. For each numbered item, you have a choice between a and b. Decide if a or b more accurately fits the illustration, and then follow the letter's accompanying direction. After determining the scientific name of the organism, write the identifying letter in the blank at the right.



- 1a. organism with two or four functional legs ... go to 2
- 1b. organism without two or four legs ... go to 3
- 2a. organism without wings ... *Canis familiaris* ... dog _____
- 2b. organism with wings ... *Passer domesticus* ... house sparrow _____
- 3a. organism is unicellular ... go to 4
- 3b. organism is multicellular ... go to 5
- 4a. organism swims freely in water ... *Balantidium* sp. ... balantidium _____
- 4b. organism anchored to substrate ... *Stentor* sp. ... stentor _____
- 5a. organism is heterotrophic ... go to 6
- 5b. organism is autotrophic ... go to 7
- 6a. organism lives in oceans ... *Monodon monoceros* ... narwhal _____
- 6b. organism lives on land ... *Ophiophagus hannah* ... king cobra _____
- 7a. organism is a tree ... *Pinus ponderosa* ... ponderosa pine _____
- 7b. organism is an herb ... *Taraxicum officinale* ... dandelion _____

Dichotomous Key of the Phylum Teetopsum

1a.	with T top	go to 2
b.	without T top	go to 7
2a.	with 7 circles forming nose	go to 3
b.	with 2 or less circles forming nose	go to 5
3a.	with T attached to a small circle	go to 4
b.	with T attached directly to body	Siddalot
4a.	with three leaves attached to body	Poosie
b.	not as in 4a	Corrumpula
5a.	possesses springs	go to 6
b.	does not possess springs	Boopy
6a.	possesses 4 springs	Wic-Wic
b.	possesses 2 springs	Nork
7a.	does not have a nose	go to 8
b.	possesses a nose	go to 9
8a.	possesses leaves	Dottywat
b.	does not possess leaves	Murp
9a.	with springs	go to 10
b.	without springs	go to 7
10a.	less than 5 springs	Bellhopper
b.	more than 5 springs	Fritzwart
11a.	with curly hair	Curlycute
b.	with straight hair	Whoopedizz!

