## SHARK KEY

44

Classification is a way of separating a large group of closely related organisms into smaller subgroups. With a classification system, identification of an organism is easy. The scientific names of organisms are based on the classification systems of living organisms. To classify an organism, scientists often use a key. A key is a listing of specific characteristics, such as structure and behavior, in such a way that an organism can be identified through a process of elimination.

In this investigation, you will

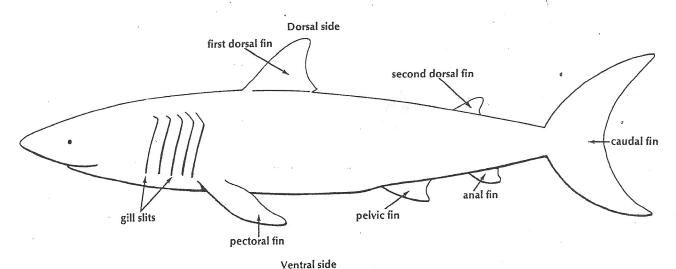
- (a) use a key to identify fourteen shark families.
- (b) study the method used in making statements of a key.

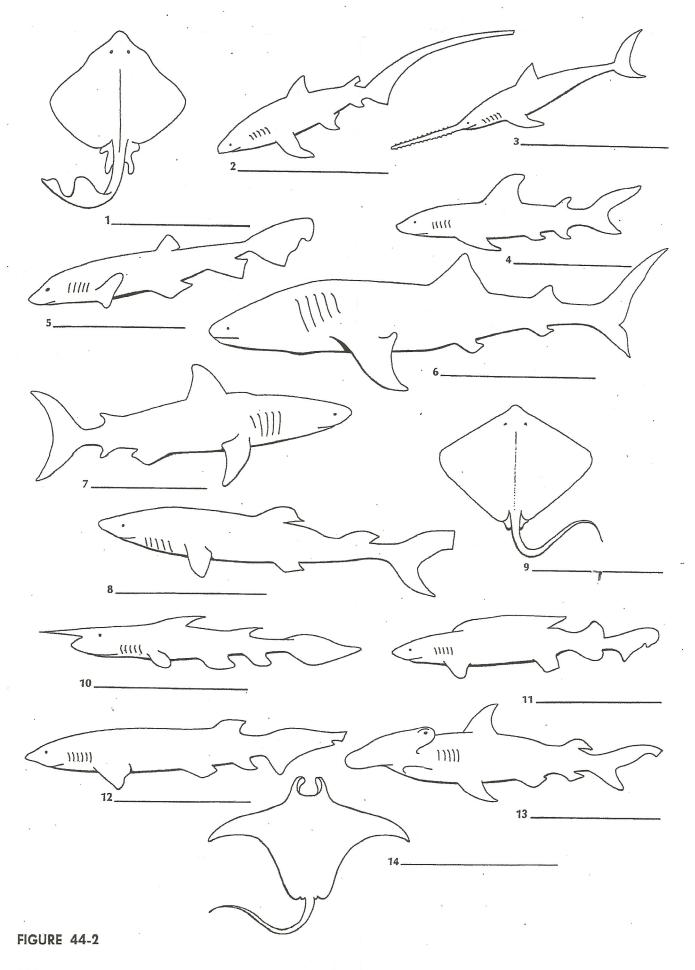
## **Procedure**

- Use Figure 44-1 as a guide to the shark parts used in the key on page 205.
- Read sentences 1A and 1B of the key. Then study Shark 1 in Figure 44-2 for the characteristics referred to in 1A and 1B. Follow the directions in these sentences and continue until a family name for Shark 1 is determined.

For example, to key a shark that has an anal fin and a body that is not kite shaped, follow the directions of 1A and go directly to sentence 2. To key a shark that lacks an anal fin and has a kite shaped body, follow the directions of 1B and go to sentence 10.

• Continue this process with each shark until all animals have been identified. Write the family name on the line below each animal.





## Key

	B.	Body kitelike (if viewed from the top)
2.	A	Polyie for absent and nose sawlike
	В.	Pelvic fin present
	A. B.	Only one dorsal fin
	В.	Mouth at front of snout rather than on underside of head
	B.	Head expanded on side with eyes at end of expansion
	В.	Top half of caudal fin exactly same size and shape as bottom half
8.	A. B.	First dorsal fin very long, almost half total length of body Family Pseudotrialcidae First dorsal fin regular length
9.	Δ	Caudal fin very long, almost as long as entire body
١0.	Δ	A long needlelike point on end of nose
	A. B.	Anal fin absent
12.	٨	Small dorsal fin present near tip of tail
13.	۸	Front of animal with two hornlike appendages