Name That Fish



Objectives

The student will be able to use a dichotomous key to identify shark and batoid families

Materials

For each	stud	lent
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- copies of Name That Fish funsheet
- copies of Key to Families
- pens or pencils

Background

All sharks and batoids belong to a group of fishes called the Chondrichthyes. To help learn about them, scientists divide them into groups called families. All the sharks in one family usually will look more like each other than sharks in other families.

To find out which family a shark is in, you would examine the shark carefully. You would count the gill slits on the sides of the shark's head. You would look at the shark's paired pectoral fins and paired pelvic fins, its one or two dorsal fins, and its anal fin (if it has one-not all sharks do). And you would look at the shark's tail, called a caudal fin.

A useful tool for listing characteristics and identifying a shark's family is a dichotomous key. The key presents a sequence of questions. Each question offers two choices.

Action

- Distribute copies of the Name That Fish funsheet and Key to Families to the students. For this activity, students may work individually or in learning groups.
 - Instruct students to always begin at number one of the Key to Families for each shark on the Name That Fish funsheet.
- Students read sentences 1A and 1B of the key. They study Shark 1 for the characteristics
 referred to in 1A and 1B. For each shark, they choose either 1A or 1B, and then follow
 the directions given in that letter. When they can identify the shark family, they write the
 family name on the line below each animal. Lead them through one or two examples

ANSWERS

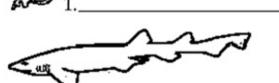
- Rajidae
 Pristiophoridae
- ScyliorhinidaeCarcharhinidae
- Lamnidae 10. Rhincodontidae
- Squalidae 11. Dasyatidae
- Heterodontidae 12. Pseudotriakidae
- Hexanchidae 13. Sphyrnidae
- Alopiidae 14. Mobulidae

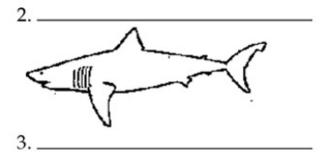


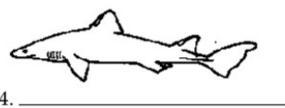
Name That Fish

Use Key to Families to help you identify the family of each shark or batoid on this page.

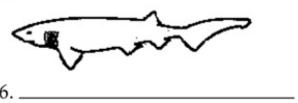


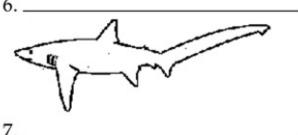




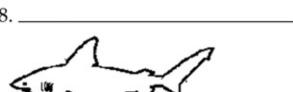


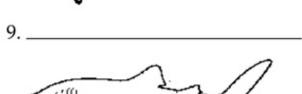


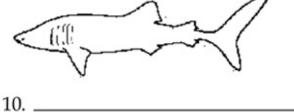


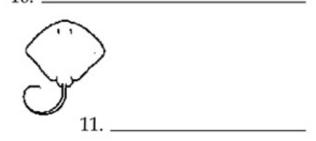














- 12.
- 13. ______

Name That Fish



Key to Families

	Choose	a shark on the Name That Fish page and start with question number 1. Answer the questions until you come to the family name.
1.	A. B.	body kitelike if viewed from the top go to 12 body not kitelike if viewed from the top go to 2
2.	A. B.	anal fin absent go to 11 anal fin present go to 3
3.	A. B.	six gill slits present
4.	A. B.	dorsal fin with spines Family Heterodontidae no spines on dorsal fins go to 5
5.	A. B.	mouth at front of snout Family Rhincodontidae mouth on underside of head go to 6
6.	А. В.	head expanded with eyes at ends of expansion
7.	А. В.	top half of caudal fin about the same size as bottom half
8.	A. B.	first dorsal fin very long, almost half the total length of the body Family Pseudotriakidae first dorsal fin regular length go to 9
9.	А. В.	caudal fin very long, almost as long as entire body Family Alopiidae caudal fin "regular" length go to 10
10	A. B.	base of first dorsal fin behind pelvic fins Family Scyliorhinidae base of first dorsal fin in front of pelvic fins
11.	A. B.	long point on the end of snout Family Pristiophoridae snout without long point Family Squalidae
12.	A. B.	two hornlike appendages on front Family Mobulidae no hornlike appendages go to 13
13.	A. B.	small dorsal fin present near tip of tail Family Rajidae no dorsal fin present near tip of tail Family Dasyatidae

