



## Skates & Rays • Study Guide

In this fascinating biology segment, Jonathan explores the world of skates and rays. From the plankton-eating Manta ray to the electric Torpedo ray, these animals have a variety of surprising adaptations for survival in the ocean.

### Objectives

1. Introduces viewers to different kinds of skates and rays and their physiology.
2. Illustrates how rays are similar and different from their relatives the sharks.

### Questions for before watching the program

1. What is a ray?
2. How is a ray different from a skate?
3. How are sharks and rays similar? How are they different?
4. Are rays dangerous?

### Discussion for after watching the program

1. Why are rays called “batoids?”
2. How do we know that the Sawfish (sometimes called a Sawshark) is actually a type of ray?

3. In what ways are skates and rays similar to sharks? How are they different?
4. What does a skate lack that most rays have?
5. What physical characteristic is shared by both flattened sharks and rays? (Hint: it has to do with how they breathe.)
6. How do skates reproduce? What about rays?
7. What does a stingray have to defend itself?
8. What two main characteristics make Torpedo rays different from most other rays?
9. Where are the gills on a ray? How about on a shark?
10. What is a spiracle?
11. What is “punting?”
12. Why does the Eagle ray have a shovel-shaped head?
13. What does a manta ray eat? How about a stingray?