

# SHARK ANATOMY / LESSON OVERVIEW

## Objectives

**The students will:**

- learn basic taxonomy;
- classify sharks taxonomically based on morphology;
- learn external anatomy of sharks;
- and learn internal anatomy of sharks.

## Lesson Summary

**Part 1. Taxonomy (10 – 20 minutes)**

**Part 2. Shark Classification (20 – 30 minutes)**

**Part 3. Shark Skin (10 – 20 minutes)**

**Part 4. External Anatomy (30 – 45 minutes)**

**Part 5. Internal Anatomy (30 – 45 minutes)**

**Activity: Shark Dissection (60 minutes)**

You will have the option to provide either (A) classical dissection or (B) a presentation and worksheet for the students. A document titled 'Shark Anatomy Dissection Manual' is available to use. It includes instructions on how to prep the specimen for dissection as well as labeled photos of all the structures students will be able to identify.

## Materials

**Option A. Classical Dissection**

- Spiny dogfish shark(s)
- Dissection tray
- Scalpel
- Dissecting scissors
- Probe or pointer
- Latex gloves
- Hazardous waste bag for disposal
- Ventilating hood
- Shark Anatomy Dissection Manual PowerPoint (provided)

**Option B. Dissection Presentation**

- Shark Anatomy Dissection Manual PowerPoint (provided)
- Activity 1 Worksheets (provided)