

## Root Detectives Answer Key

**Words with the root “bio”:** biology, biography, biotic, bio, life, lifelike, biodegradable

**Explanation:** The root “bio” means *life*. Knowing this helps explain that all these words relate to living things or the study, story, or imitation of life.

### Teacher’s Guide

- **Objective:** Help students recognize and apply understanding of **Greek and Latin roots** to determine word meaning in context.
- **Engagement Tip:** Before reading, write “bio” on the board and have students brainstorm any words they already know that include it. Then, predict what “bio” might mean before confirming through the passage.
- **Differentiation:**
  - *Grades 6-7:* Provide one highlighted example (e.g., biology) to model identification.
  - *Grades 8-10:* Ask students to write a short paragraph using a different root (e.g., “geo,” “aqua,” or “tele”) in at least five words.
- **Extension Ideas:**
  - Have students highlight the same root in their science or history textbooks.
  - Turn this into a creative writing task—students write a short “root story” that includes five “bio” words used correctly in context.
  - Encourage root mapping: students create a visual web showing all “bio” words and their meanings.