## Core Skills Analysis

### Biology

- Ethan learned about the anatomical structure of frogs through hands-on dissection, gaining firsthand knowledge of muscle groups, internal organs, and organ placement.
- The activity helped Ethan understand the functional relationships between different organs, such as how the heart, lungs, and digestive system work together in amphibians.
- By observing the physical characteristics of an amphibian, Ethan developed observational skills and scientific terminology relevant to vertebrate anatomy.
- Ethan was exposed to ethical considerations related to biological studies, including respect for living organisms and the scientific importance of dissection.

### Tips

To deepen Ethan's understanding beyond the dissection, encourage him to compare frog anatomy with human anatomy by creating labeled diagrams side by side. A project researching the evolutionary adaptations of amphibians in different environments can bring context to the observed structures. Additionally, discussing the ecological role of frogs and issues like habitat loss will emphasize conservation awareness. To engage multiple learning styles, consider virtual frog dissection simulations alongside the physical experience to reinforce concepts and allow for repetition without additional specimens.

### Book Recommendations

- The Magic School Bus Explores the Senses by Joanna Cole: A fun and approachable introduction to animal biology and anatomy through the perspective of Ms. Frizzle's class, which ties in dissection themes and sensory systems.
- Frogs by Nicola Davies: This beautifully illustrated book explains frog life cycles, habitats, and anatomy in clear language suitable for young teens.
- Human Body Theater by Maris Wicks: An engaging graphic novel that explains anatomy and physiology, providing useful comparisons for students interested in dissected animals.

### Learning Standards

- NGSS MS-LS1-3: Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.
- CCSS.ELA-LITERACY.RST.6-8.3: Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.
- CCSS.ELA-LITERACY.RST.6-8.7: Integrate visual information (e.g., in charts, graphs, diagrams, models, animations, or interactive elements) with text in print or digital sources.

### Try This Next

- Create a labeled diagram worksheet of frog anatomy using the dissection observations.
- Write a reflective journal entry describing what was learned and ethical thoughts about dissection.
- Quiz: Identify and explain the function of five major frog organs based on the dissection.