

Name \_\_\_\_\_

## The Aquatic Symphony: How Sharks Breathe and Move

### Open-Ended Response Answer Key

1. Sharks' gills allow them to extract oxygen from water efficiently, enabling them to remain underwater for extended periods without needing to surface for air, unlike lung-breathing animals.
2. Some fish, such as certain species of bony fish, also use buccal pumping for respiration.
3. A shark's ability to stay stationary while still breathing allows it to conserve energy and surprise prey by ambushing them from a hidden position.
4. The streamlined shape of a shark's body reduces drag and allows it to move through the water with minimal resistance, contributing to its swimming ability. Additionally, the placement of fins aids in stability and maneuverability.

