

Name _____

Arctic Dynamics Answer Key

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|-----------------------------|---------------------|
| 1. salinity | 6. freshwater |
| 2. brine | 7. surface currents |
| 3. density | 8. sea ice |
| 4. thermohaline circulation | 9. temperature |
| 5. melting | 10. deep water |

Teacher's Guide

- Support grades 6 to 8 in understanding advanced Arctic Ocean processes.
- Build vocabulary related to salinity, temperature, and global ocean movement.
- Encourage students to use context clues in content-heavy sentences.

Differentiation Tips

- Review key terms before the worksheet using short definitions or quick sketches.
- Allow struggling students to highlight clues in each sentence before choosing an answer.
- Challenge advanced learners to write an additional sentence using one of the more complex terms such as thermohaline circulation.

Engagement Ideas

- Begin with a short discussion about how cold and warm water behave differently.
- Use a map to show how Arctic changes can affect oceans worldwide.
- Invite students to predict what might happen to ocean circulation if Arctic ice continues to melt.