

## GETTING SALTY (TEACHER GUIDE)

1. The best answer is **B** because when the temperature is 15°C the graph line is closest to -0.09.

It is not **A, C, or D** because these points do not line up with the difference in salinity at 15°C.

2. The best answer is **D** because in the Table and Figure, the highest recorded melting point is around 21.9°C.

It is not **A-C** because in the Table and Figure, melting points above each of these options are shown.

3. The best answer is **B** because only water is acting as a solvent in this solution.

It is not **A** because the salt is being dissolved, which makes it the solute. It is not **C or D** because the melting point and water purity are not a part of the solution, they are properties of it.

4. The best answer is **A** because additional solutes, like salt, will raise the melting point above that of pure water.

It is not **B** because adding additional solutes increases the melting point, like the salt. It is not **C** because adding a solute would change the melting point. It is not **D** because this is physically impossible.

5. The best answer is **C** because using Table 1, we can see that with a melting point of 10.2 degrees Celsius, salinity should be between 9.21-14.87, and closer to 14.87

It is not **A,B, or D** because these answers are not reflected in Table 1.