

Week 3 Worksheet: The Properties of Water & Chemical Oceanography

Part 1 of 1 -

99.90001 Points

Question 1 of 15

6.66 Points

Fresh water has a maximum density at about _____ degrees Celsius.

- A.0
- B.4
- C.-2
- D.5
- E.none of the above

Answer Key: B**Feedback:** Remember ice floats! Water is most dense a few degrees ABOVE freezing.

Question 2 of 15

6.66 Points

The amount of energy required to change water from liquid to vapor is called the:
It's the extra energy it takes to make steam.

- A.latent heat of solidification
- B.latent heat of release
- C.latent heat of liquefaction
- D.latent heat of vaporization
- E.latent heat of sun-screen wash-off

Answer Key: D**Feedback:** Remember the definition of "boiling" means to change from liquid to gas. Due to its polar molecular attraction water needs this extra "heat-of-vaporization" to make that jump from liquid to gas. Thus water has a rather high boiling point compared to such liquids as alcohol or gasoline.

Question 3 of 15

6.66 Points

The addition of salt to water will:
Why do we salt roads in the winter and why do folks add salt to water to cook pasta?

- A.raise the boiling point
- B.lower the boiling point
- C.lower the freezing point