

## Specific Heat Of Water Answer

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### Specific Heat Of Water Answer

C = Specific heat capacity of a substance depends on the nature of the material of the substance. S.I unit of specific heat is J kg<sup>-1</sup> K<sup>-1</sup>. Specific Heat of water, Ice and water vapour Water. For liquid at room temperature and pressure, the value of specific heat capacity (C<sub>p</sub>) is approximately 4.187 kJ/kgK. Ice. For ice 2.108 kJ/kgK. Water vapour

### What is the specific heat capacity of ice, water and steam?

The definitions for heat capacity and specific heat capacity may be found here. 1) Solution to (a):  $q = (50.0 \text{ g}) (3.1 \text{ }^\circ\text{C}) (4.181 \text{ J g}^{-1} \text{ }^\circ\text{C}^{-1}) = 648.52 \text{ J}$ . I used 50.0 g because the density of water is 1.00 g/mL and I had 50.0 mL of water. 2) Solution to (b):  $q = 648.52 \text{ J}$ . We assume all heat absorbed by the water was lost by the metal.

### ChemTeam: How to Determine Specific Heat: Problem 1 - 10

Specific heat capacity is a measure of the energy required to raise the temperature of 1 kg of material by 1°C. ...  $\{^\circ\text{C}\}$  into water at  $\{0^\circ\text{C}\}$  Reveal answer. ice →water is fusion

### Specific latent heat - Specific heat capacity - National 5 Physics ...

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