

Name: 12th CBSE-A-Mathematics

Instructions

There are 3 Videos and 7 Questions in this Homework

- How much energy is released or absorbed when 1 gm of steam at 100 °C turns to ice at 0 °C?
- How do you appreciate the role of the higher specific heat of water in stabilizing atmosphere temperature during winter and summer seasons?
- \_\_\_\_\_ is used as a coolant.
- Specific heat  $S$  =
- The SI unit of specific heat is \_\_\_\_\_.
- Suppose that 1 l of water is heated for a certain time to rise and its temperature by 2 °C. If 2 l of water is heated for the same time, by how much will its temperature rise in °C?
- How much energy is transferred when 1 gm of boiling water at 100 °C cools to water at 0 °C? Specific heat = 1 cal gm<sup>-1</sup> °C<sup>-1</sup> and latent heat 540 cal gm<sup>-1</sup>.
- Explain the procedure of finding specific heat of solid experimentally?
- What role does specific heat play in keeping a watermelon cool for a long time after removing it from a fridge on a hot day?