

- 12** A small ice cube of mass 20 g is heated and changes from the solid to the liquid state. During this change in state the temperature of the substance does not change.

Which statement about this change in state is **not** correct?

- A** The amount of energy the ice absorbs is equal to the specific latent heat of fusion.
- B** The average kinetic energy of the molecules remains unchanged.
- C** The average potential energy of the molecules increases.
- D** The total mass of ice and water remains constant throughout.