17 Ice at a temperature of 0 °C is a rare example of a solid that floats on its liquid form, in this case water, when they are both at the same temperature.

What is the explanation for this?

A The average speed of the molecules in the ice is greater than the average speed of the molecules in the water.

B The average speed of the molecules in the water is greater than the average speed of the molecules in the ice.

C The mean separation of the molecules in the ice is greater than the mean separation of the molecules in the water.

D The mean separation of the molecules in the water is greater than the mean separation of the molecules in the ice.

Space for working