

- 13** Consider the following:

S: 1 kg of ice at 0 °C
L1: 1 kg of water at 20 °C
L2: 1 kg of water at 40 °C
G: 1 kg of steam at 100 °C

Which of the following statements is **false**?

- A** L2 contains molecules with higher average kinetic energies than L1.
- B** S has higher potential energy than G.
- C** There is positive work done on G when G condenses.
- D** The amount of thermal energy S must gain in order to melt is less than the amount of thermal energy G must lose in order to condense.

