

17 A body travelling with a speed of 10 m s^{-1} has kinetic energy 1500 J.

If the speed of the body is increased to 40 m s^{-1} , what is its new kinetic energy?

- A** 4500 J **B** 6000 J **C** 24 000 J **D** 1 350 000 J

18 Which process does **not** require energy to be supplied?

- A** boiling
B evaporation
C freezing
D melting

19 1.5 m^3 of water is mixed with 0.50 m^3 of alcohol. The density of water is 1000 kg m^{-3} and the density of alcohol is 800 kg m^{-3} .

What is the density of the mixture with volume 2.0 m^3 ?

- A** 850 kg m^{-3} **B** 900 kg m^{-3} **C** 940 kg m^{-3} **D** 950 kg m^{-3}

Space for working