

- 9.** A piece of brass undergoes the following three processes involving a change of energy:

P: It is lifted vertically 2 m

Q: it is heated from 15°C to 20°C

R: It is accelerated from rest to 10 m s^{-1}

The specific heat capacity of brass is $380 \text{ J}^{-1} \text{ K}^{-1} \text{ kg}^{-1}$.

These processes, arranged in order of increasing energy change are

A *PQR*

B *QPR*

C *QRP*

D *PRQ*