

- 3** By reference to the first law of thermodynamics, state and explain the change, if any, in the internal energy of:

(a) a lump of solid lead as it melts at constant temperature

.....

.....

.....

.....

..... [3]

(b) some gas in a toy balloon when the balloon bursts and no thermal energy enters or leaves the gas.

.....

.....

.....

.....

..... [3]