

Reading the Curve - continued

PART C

The price of a phase change

It takes 120 kJ to melt a sample over 6 min and 300 kJ to boil it over 10 min.

- 1 Find the energy rate for melting and boiling in kJ/min.

- 2 Which process uses energy faster?

PART D

The mirror curve

A gas cools from 80 C to 20 C in 12 min, then remains at 20 C for 5 min.

- 1 Find the cooling rate during the first segment.

- 2 What does the flat segment suggest about the energy entering or leaving the sample?
