

OCR Gateway Physics

GCSE Exam-style questions P1.3 Pressure

Name Class Date

GCSE Physics only

Higher

- 1 What is the unit for the pressure of a gas?

A Pa
B N
C F
D Pt

Your answer

(1 mark)

- 2 a Give two ways to increase the internal energy of a gas.

1 _____

2 _____

(2 marks)

- b Explain how air particles create enough pressure to inflate a balloon as you blow more air into it.

(4 marks)

- 3 When the volume of a gas in a syringe is $40 \times 10^{-6} \text{ m}^3$ the pressure is $1 \times 10^5 \text{ Pa}$.

Calculate the pressure of the gas when the volume is compressed to $3 \times 10^{-6} \text{ m}^3$.

Show your working.

Answer: Pa

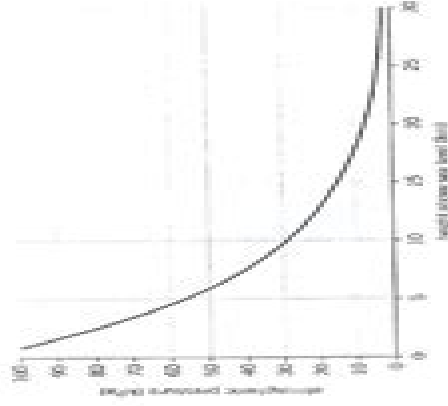
(3 marks)

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GCSE Exam-style questions P1.3 Pressure

Name Class Date

- 4 The graph shows how atmospheric pressure changes with height above sea level.



- a The pressure at the top of Mount Everest is approximately 33 hPa. Using the graph, estimate the height of Mount Everest.

Answer: km

(1 mark)

- b Explain how and why atmospheric pressure changes with increasing height above sea level.

(4 marks)

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