

AQA A-level Physics Paper 2 Unofficial Mark Scheme
6th June 2025

Unofficial Mark Schemes

Num	Question	Answer	Discussion	Mark
1)	Topic: Thermal physics			Total: 9
1.1)	Show that there is 40 mols $T = 20^{\circ}\text{C}$ Pressure = 105 kPa	$PV = nRT$ $V = 1 \text{ m}^3 =$ P/RT $n =$ $105000 / (8.31 \times (20 + 273))$ $n = 43 \text{ mols}$ $n \approx 40 \text{ mols}$	Nice start before hell began +3 U know it was bad when this was the first question compared to paper 1	1
1.2)	Density 1.25 kg m^{-3} . Calculate the root mean square	484m/s using 43mols 503m/s-1 using 43.1 mol	Is the density not 1.45? Nope 1.25 I said Nm/V is equal to the density so did $3P/\text{density} = c_{\text{rms}}^2$, $c_{\text{rms}} = 501 \text{ m/s}$	3
1.3)	Temperature change when C_{rms} is doubled.	$(C_{\text{rms}})^2 \propto T$ $3T = 3 \times (270 + 23) = 879 \text{ K}$ $T \propto C_{\text{rms}}^2$	Ratio change in $T = \sqrt{2}$ Hence change in $T = (\sqrt{2} - 1) \times T = 122.6 \text{ K}$ Above is wrong, for c to double T will quadruple.	2

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Ying Liu



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Geology. Answers to the exercises are provided in Appendix 3. Exploring Geology 4th Edition by Reynolds Johnson Morin ...
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