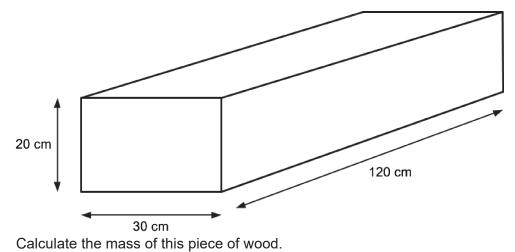


Gateway Science Physics A J249/01 Paper 1 Foundation Tier

Question Set 20



Show your working and give the units.

Answer =	Units	

[6]

Total Marks for Question Set 20: 6

Equations in physics

 $(\text{final velocity})^2 - (\text{initial velocity})^2 = 2 \times \text{acceleration} \times \text{distance}$ change in thermal energy = mass × specific heat capacity × change in temperature thermal energy for a change in state = mass × specific latent heat energy transferred in stretching = $0.5 \times \text{spring constant} \times (\text{extension})^2$

potential difference across primary coil × current in primary coil = potential difference across secondary coil × current in secondary coil



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