## Density Past Paper Questions Jan 2002 to Jan 2009

## Q6 Jan 2004

<b>6</b> (a) I		Define the <i>density</i> of a material.		
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			(1 mark)	
	(b)	Brass, an alloy of copper and zinc, consists of 70% by volume of copper and 30% by volume of zinc.		
		der	density of copper = $8.9 \times 10^3 \text{kg m}^{-3}$ density of zinc = $7.1 \times 10^3 \text{kg m}^{-3}$	
		(i)	Determine the mass of copper and the mass of zinc required to make a rod of brass of volume $0.80 \times 10^{-3}  \text{m}^3$ .	
		(ii)	Calculate the density of brass.	
			(4 marks)	