



Section 10.1 Mass Energy

1. The mass-energy density is $1.0 \times 10^3 \text{ kg/m}^3$. What is the mass-energy density in GeV/c^2 (energy/c²)?

(a) $10^{10} \text{ GeV}/c^2$	(b) $10^{11} \text{ GeV}/c^2$	(c) $10^{12} \text{ GeV}/c^2$
(d) $10^{13} \text{ GeV}/c^2$	(e) $10^{14} \text{ GeV}/c^2$	
2. A nucleon (proton or neutron) is about $1.67 \times 10^{-27} \text{ kg}$. What is the mass-energy density of a nucleon in GeV/c^2 ?

(a) $10^3 \text{ GeV}/c^2$	(b) $10^4 \text{ GeV}/c^2$	(c) $10^5 \text{ GeV}/c^2$
(d) $10^6 \text{ GeV}/c^2$	(e) $10^7 \text{ GeV}/c^2$	
3. What is the mass-energy density of a nucleon in GeV/c^2 ?

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(d) $10^6 \text{ GeV}/c^2$	(e) $10^7 \text{ GeV}/c^2$	
4. The mass-energy density is 10^{10} kg/m^3 . What is the mass-energy density in GeV/c^2 ?

(a) $10^{10} \text{ GeV}/c^2$	(b) $10^{11} \text{ GeV}/c^2$	(c) $10^{12} \text{ GeV}/c^2$
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(a) $10^3 \text{ GeV}/c^2$	(b) $10^4 \text{ GeV}/c^2$	(c) $10^5 \text{ GeV}/c^2$
(d) $10^6 \text{ GeV}/c^2$	(e) $10^7 \text{ GeV}/c^2$	

Section 10.2 Photons

1. The mass-energy density of a photon is 10^{10} kg/m^3 . What is the mass-energy density in GeV/c^2 ?

(a) $10^{10} \text{ GeV}/c^2$	(b) $10^{11} \text{ GeV}/c^2$	(c) $10^{12} \text{ GeV}/c^2$
(d) $10^{13} \text{ GeV}/c^2$	(e) $10^{14} \text{ GeV}/c^2$	

Physical Science Chapter 17 Test Answers

Jessica J Manson



Physical Science Chapter 17 Test Answers:

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