The Science of Physics

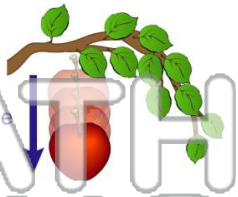
Phys Sci

Name_____ Class_____ Date_____

1 An object weighing 15 newtons is lifted from the ground to a height of 0.22 meter. The **increase** in the object's **gravitational potential energy** is approximately

A 310 J
B 32 J
C 3.3 J
D 0.34 J

2 As an object falls freely, the **kinetic energy** of the object



A decreases
B increases
C remains the same

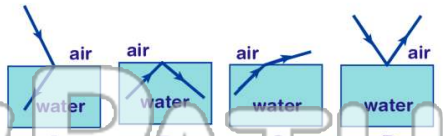
3 The **mass** of a high school football player is approximately

4 A ball is thrown at an angle of **38°** to the horizontal. What happens to the **magnitude** of the ball's **vertical acceleration** during the total time

5

7 across a room?

A 5.0×10^{-9} s
B 2.0×10^{-8} s
C 5.0×10^{-8} s
D 2.0×10^{-7} s

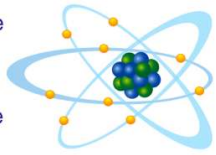


9 A photon of light carries

A energy, but not momentum
B momentum, but not energy
C both energy and momentum
D neither energy nor momentum

10 The force that holds protons and neutrons together is known as the

A gravitational force
B strong force
C magnetic force
D electrostatic force



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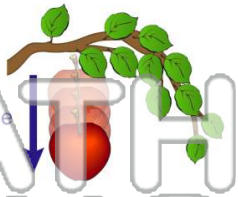

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A 10^0 kg

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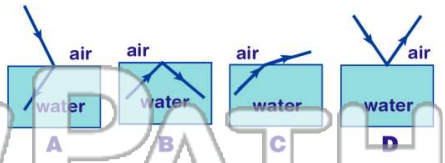

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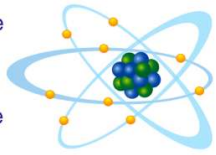

B