

PHYZZ SPRINGBOARD

CONSERVATION OF ENERGY



LEVEL 1: THE FLOW OF ENERGY

1. Suppose Belly-flop Benny were to climb a ladder to a diving platform some height above the ground.

a. When he's at rest on the ground, what is his potential energy? His kinetic energy? Label these values appropriately in the diagram.

b. What kind of energy does he gain by climbing the ladder and how does he get it?

c. When he dives, he moves from the diving platform to the pool. What happens to his potential energy on the way down?

2. Suppose he gains 10,000 J of potential energy by climbing to the diving platform.

a. How much work was done in the process?

b. What is his kinetic energy as he stands at the edge of the platform? Label it in the diagram.

3. Suppose he dives into a pool of water near the base of the ladder.

a. What is his potential energy right before he enters the water? Label it in the diagram.

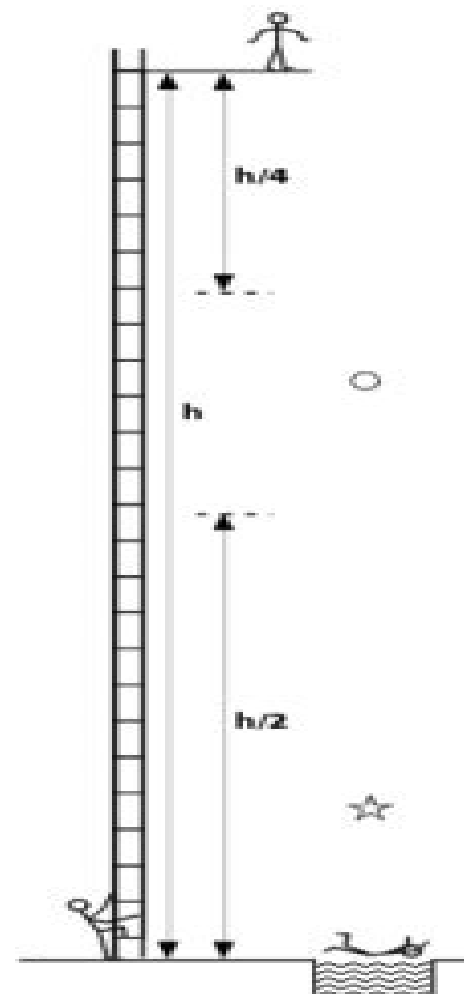
b. What is his kinetic energy right before he hits the water? Label it in the diagram.

c. Determine and label the values of Benny's potential and kinetic energy when he's half way down.

d. Determine and label the values of Benny's potential and kinetic energy when he's a quarter of the way down.

e. When Benny reaches the level shown with the star, his kinetic energy is 8200 J. Determine the value of his potential energy at that point and label both.

f. When Benny reaches the level shown with the circle, his potential energy is 6400 J. Determine the value of his kinetic energy at that point and label both.



Thanks: Paul Hewitt

Potential Energy Diagram Instructional Fair Answers

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