

CHAPTER 8

POWER, WORK, AND ENERGY

1. Analyzing work in three dimensions: an object moves under the influence of a force
2. An object's kinetic energy increases whenever its speed increases
3. Kinematics of free-fall motion for objects projected upward, downward, or horizontally, and for objects moving under constant force
4. Kinematics of work in the case of constant force under constant acceleration

KEY TERMS AND DEFINITIONS

Work: Work occurs when a force acts on an object and the object undergoes a displacement.



Figure 8.1 Illustrations of work by a force.

1. In Figure 8.1(a), if the force exerted by the person on the wheelbarrow is F , the distance traveled along the horizontal surface is d , and the angle between F and d is θ , the work done by the person is $W = Fd \cos \theta$.
2. In Figure 8.1(b), if the person lifts an object of mass m through a vertical distance d at constant velocity, the work done is $W = mgd$.
3. The change in potential energy is equal to the work done on the object: $\Delta U = W_{\text{ext}} = mgd$.
4. The work done in lifting an object through a height d is equal to the change in potential energy:

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