

## Module 05 - Lesson 1

### Forces as Interactions

**Question 1:** An apple sits on the kitchen counter. Draw the forces acting on the apple and the forces acting on the kitchen counter and describe the relationship between them.

**Question 2:** When a bullet is fired from the gun, the force of the internal explosion in the gun fires the bullet forward as a projectile. Draw a free-body diagram of the gun and the bullet and describe the interaction forces acting on the two.

**Question 3:** A builder drags a marble block across a floor by pulling on a rope attached to the block. Draw the forces acting on the three objects: the block, the rope, and the builder, and identify the interactions between them.