

Name _____

Answer Key: Energy Transformation

1. Winding up a music box demonstrates energy transformation because it involves storing potential energy in the spring and then converting it into kinetic energy to produce music.
2. The spring stores potential energy when you wind the music box.
3. During the music box's operation, as the spring unwinds, its potential energy is transformed into kinetic energy, causing the music box to play a tune.
4. You need to wind up a music box periodically because the potential energy in the spring gets used up as it unwinds. Winding it up again replenishes this potential energy.
5. Other toys or devices that use energy transformation to work include wind-up toys, wind-up flashlights, and wind-up radios.