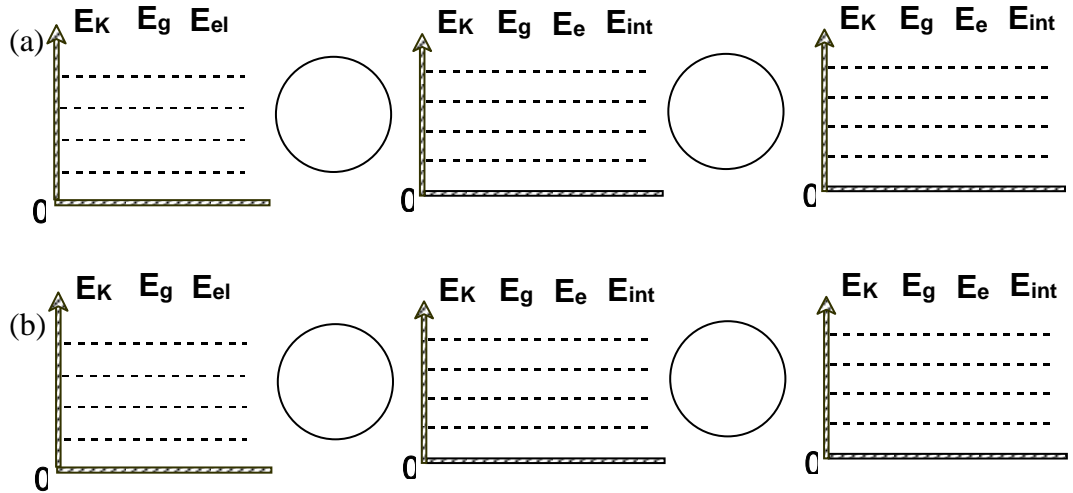
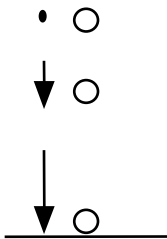


Unit IV: Worksheet 1

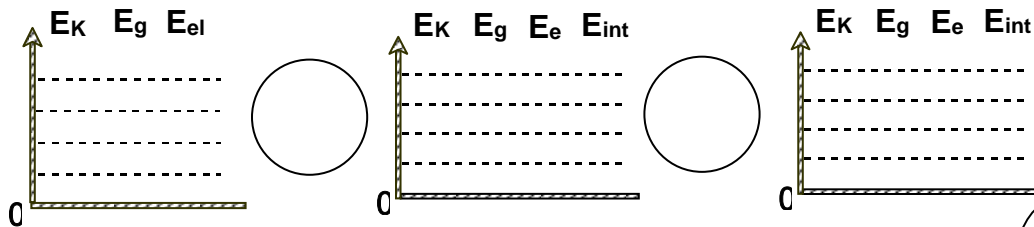
Use energy bar charts to analyze the energy changes in each situation given.

1. A ball is held above the ground, and then is dropped so it falls straight down.
 (Restrict your analysis to the ball moving in the air, BEFORE it hits the ground.)

(a) Ball-Earth System (b) Ball Only System

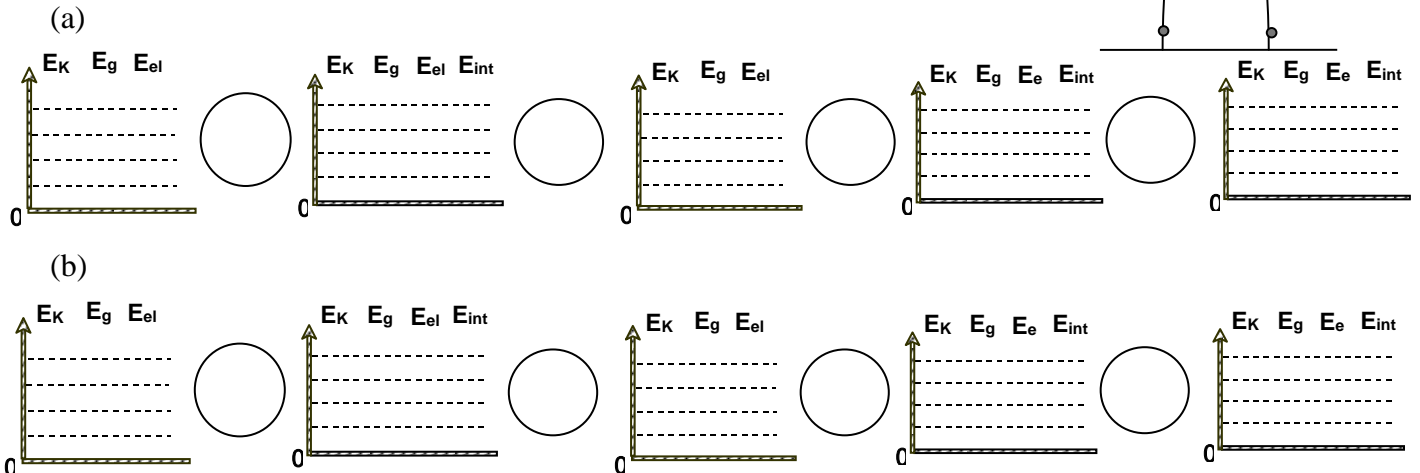
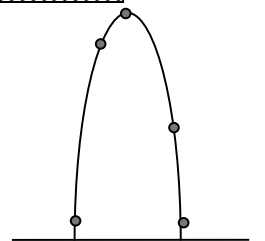


2. A wind-up toy is wound up, then "walks" across a table and comes to a stop.

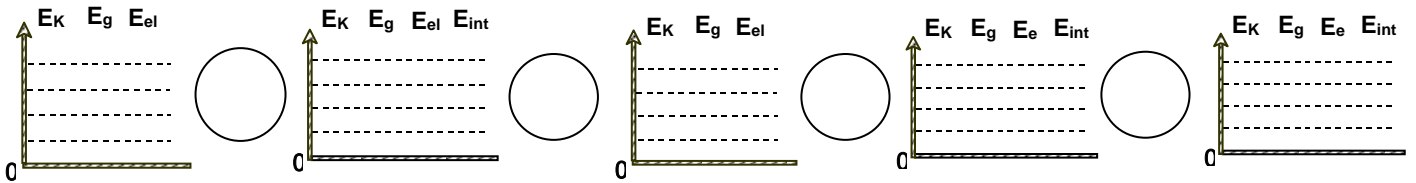
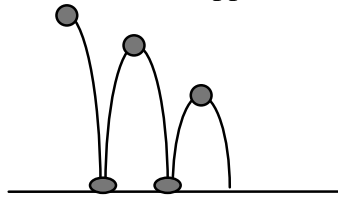


3. A baseball is thrown up in the air and then falls back down.

(a) Ball-Earth System (b) Ball Only System



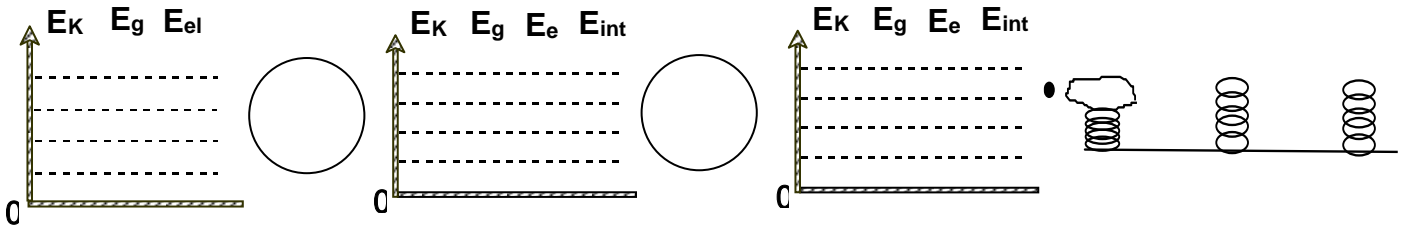
4. A ball is dropped and bounces up and down.



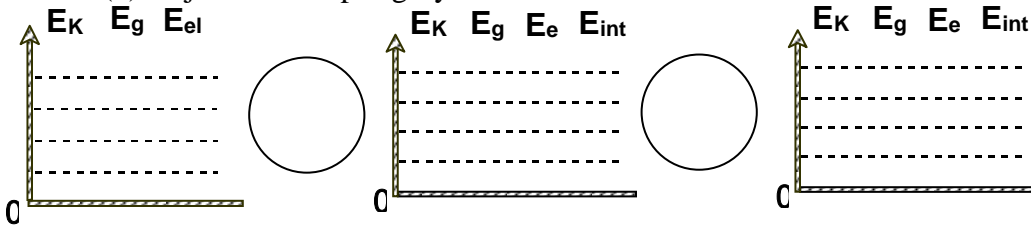
Why does the ball not bounce as high each time? Where did the energy "go"?

5. An object rests on a coiled spring and is then launched upwards.

(a) Object-Spring System



(b) Object-Earth-Spring System



6. A piece of clay is dropped to the floor.

