

## UNIT V WORKSHEET 3: ENERGY

### ENERGY BAR GRAPHS/FLOW DIAGRAMS—QUALITATIVE

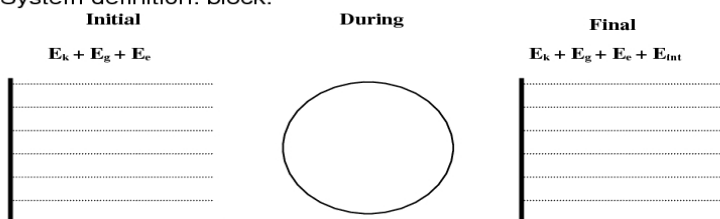
**Initial state:** A rubber band is stretched and about to release a block along a track. *The system is ideal, with no friction anywhere in the system.*



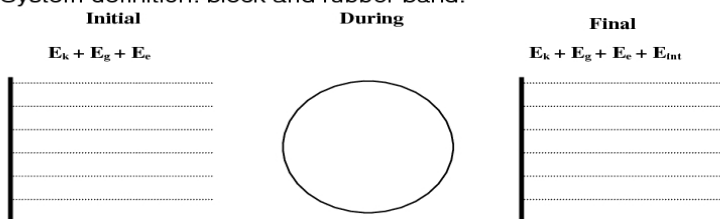
**Final state:** The block is moving along the track.

In each system definition below, a) complete the energy bar graphs for each state, b) identify the system in the circle, c) draw arrows signifying energy transferring either into or out of the system, and d) identify the forces transferring energy into or out of the system.

1. System definition: block.



2. System definition: block and rubber band.



3. System definition: block, rubber band, and track.

