

UNIT VII ENERGY: WS 3a Energy Transfer and Storage

For each situation shown below: 1. Show your choice of system, unless it is specified for you.

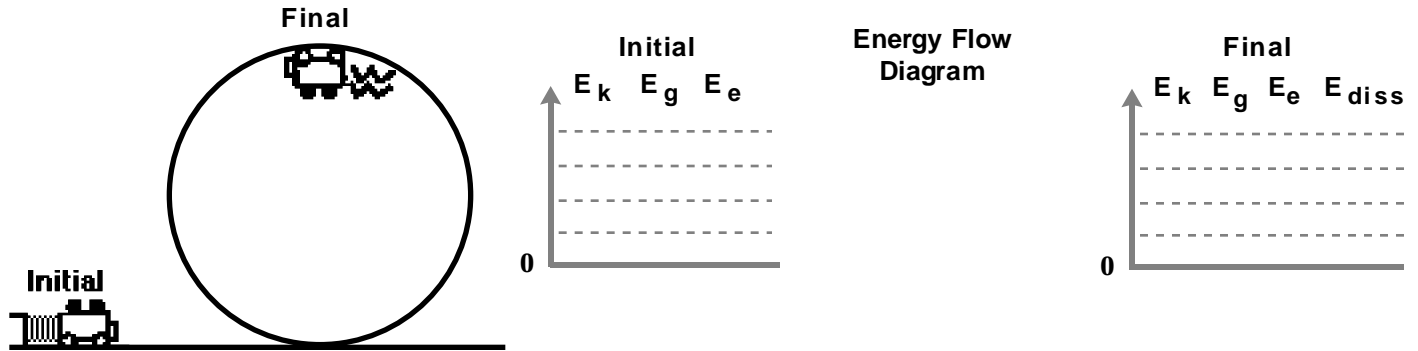
***Always include the earth in your system.*

2. Decide if your system is frictionless or not, and state this.

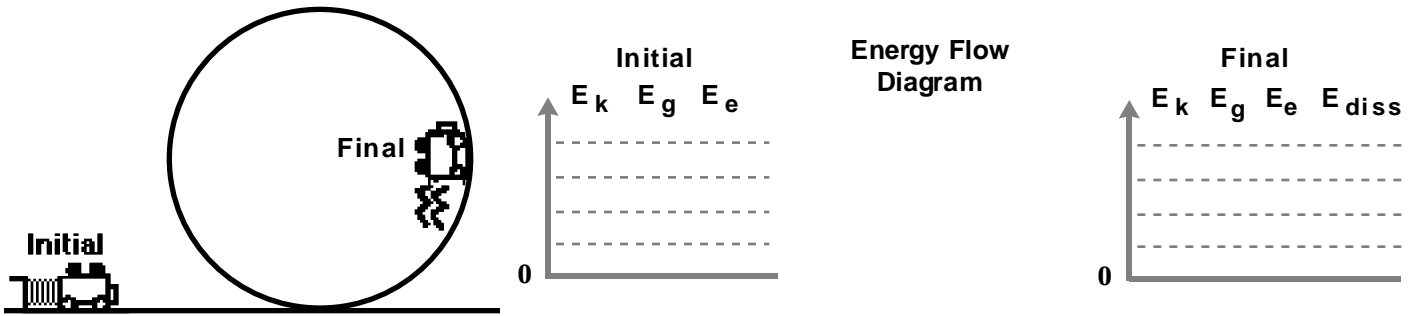
3. Sketch an energy bar graph for the initial situation.

4. Then complete the analysis with final internal energy bar graphs and energy transfer system schema

1. System = _____ Friction? _____

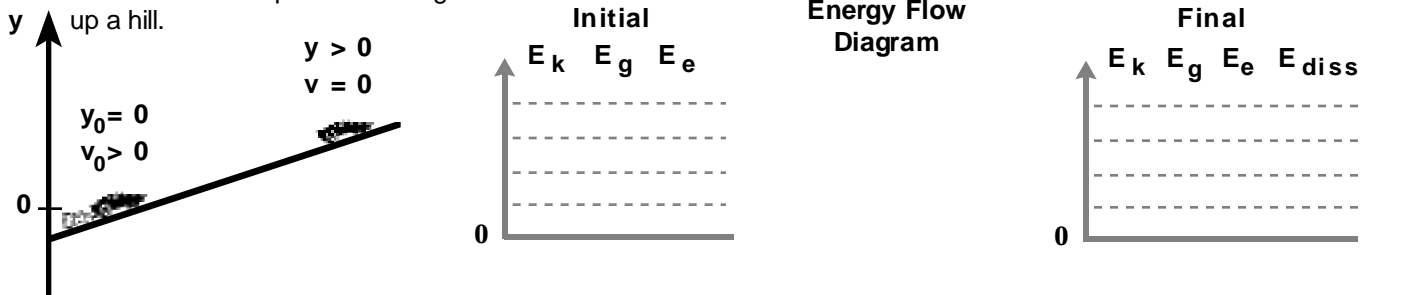


2. System = _____ Friction? _____



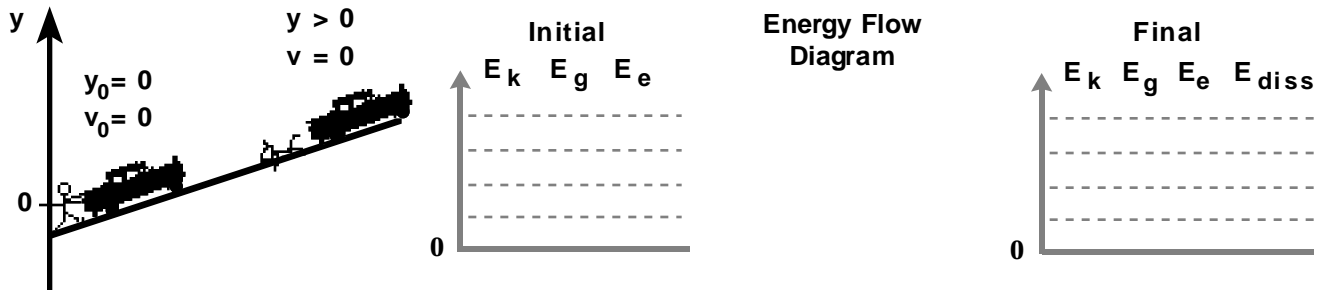
3. System = _____

A car rolls to a stop while moving up a hill.



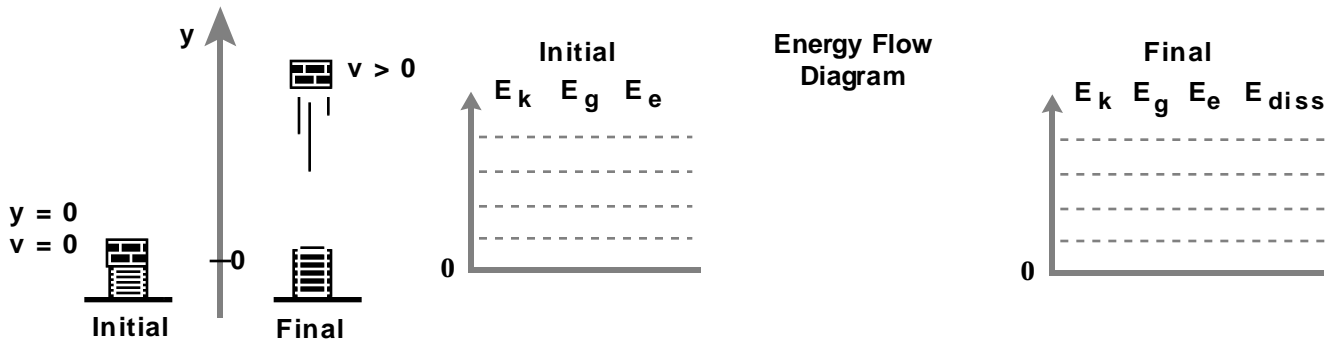
4. A person pushes a car, with the parking brake on, up a hill.

System = _____



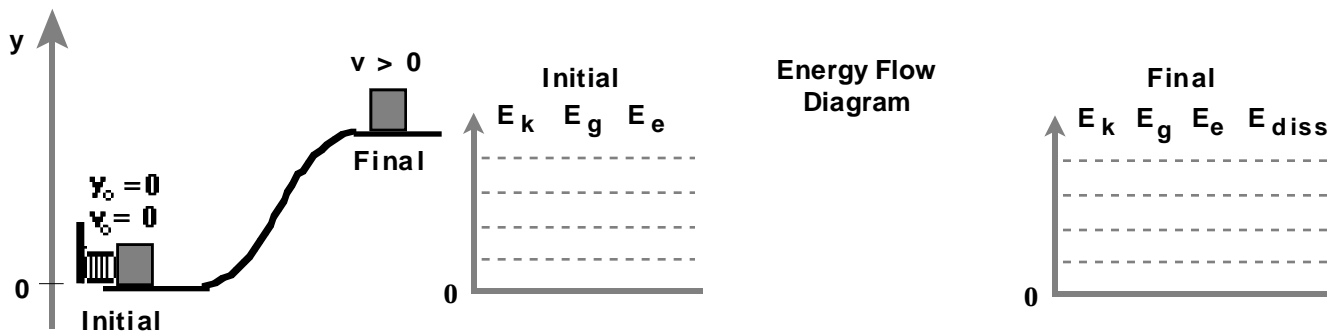
5. A load of bricks rests on a tightly coiled spring, then is launched into the air.

System = _____



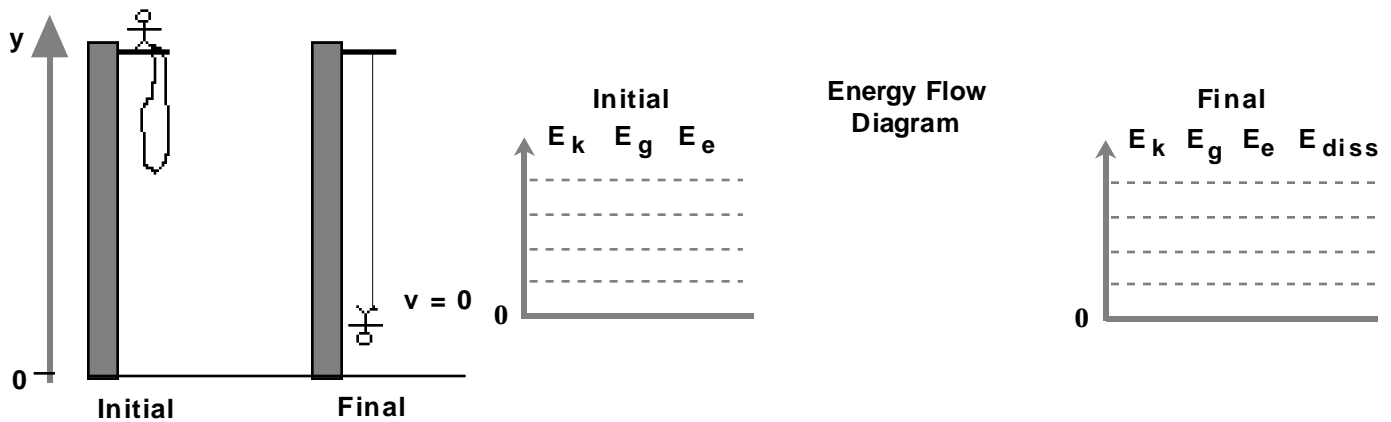
6. A crate is propelled up a hill by a tightly coiled spring.

System = _____ Friction? _____



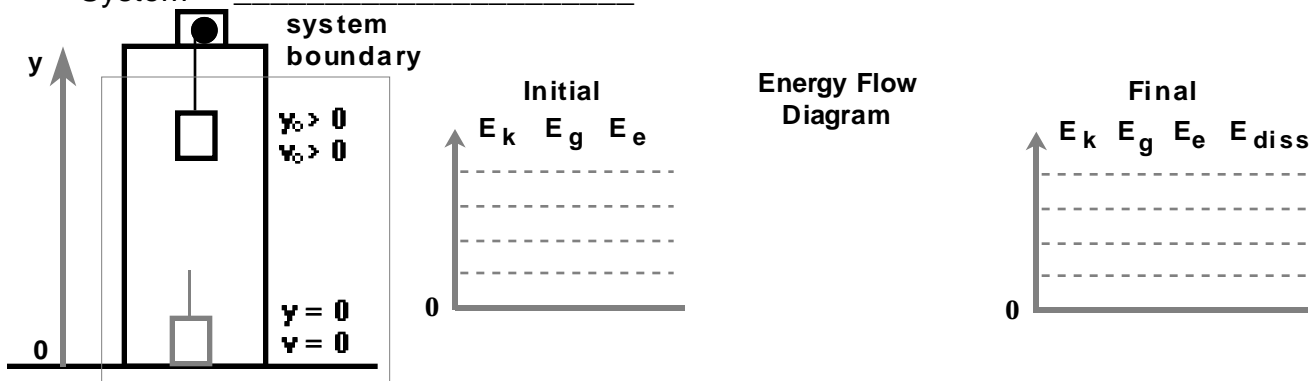
7. A bungee jumper falls off the platform and reaches the limit of stretch of the cord.

System = _____



8. An elevator, initially moving downward, is brought to rest on the ground floor.

System = _____



9. Create your own situation and construct corresponding energy bar graphs and system schema.

System = _____

