

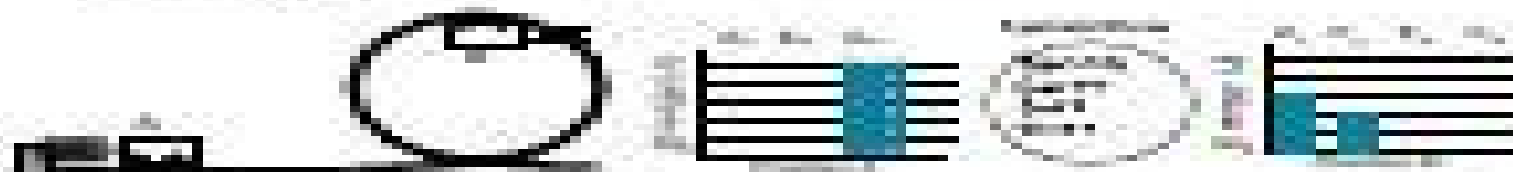
# Energy Model Worksheet 3:

## Qualitative Energy Storage & Conservation with Bar Graphs

### Problem 1: Spring & Ball

- For problem 1a, draw a bar graph of energy. Please label the energy components and units. The 100 J of energy shown here are just illustrative numbers for working problems only.
- Sketch the energy transformation as the spring moves from the compressed position to the relaxed state. Label the energy and state the units. Assume no losses.
- Sketch a qualitative energy storage and conservation bar graph for the spring and ball.

- 1a. A ball is attached to a spring. The spring is compressed and the ball is at the relaxed state. The spring is released and the ball moves to the right.

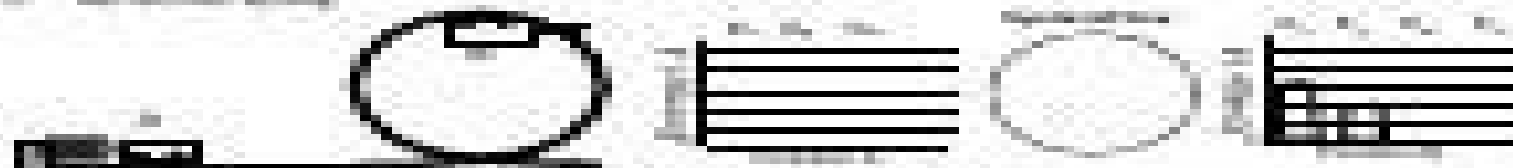


Energy storage bar graph:

$$E_{\text{tot}} = E_{\text{K}} + E_{\text{P}}$$

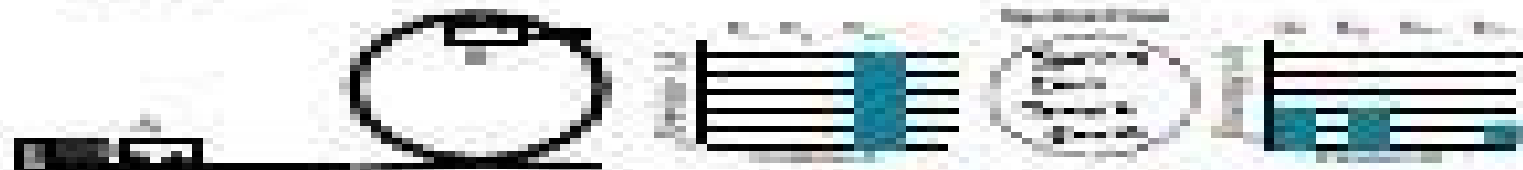


- 1b. Repeat problem 1a but a ball is attached to the spring that is moving to the right. The spring is released and the ball moves to the right.



Energy storage bar graph:

- 1c. Now the ball is moving to the right. The spring is released and the ball moves to the right.



Energy storage bar graph:

$$E_{\text{tot}} = E_{\text{K}} + E_{\text{P}} + E_{\text{th}}$$

Energy transformation bar graph:

Energy conservation bar graph:

# Modeling Instruction 2010 U8 Energy Answers

**RC Schank**



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