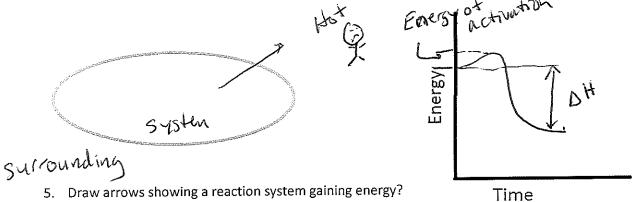
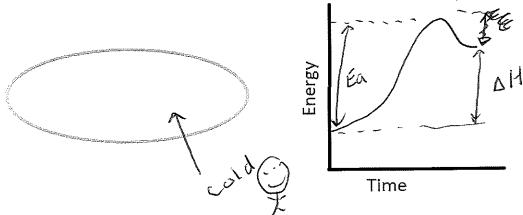
What is energy?

- 1. What is energy? ability to do work furth
- What is a calorie? 4.18J=1cal 1006 cal= 1 Cal
- 3. Convert the following units: a. $250 \text{ cal} \rightarrow 0.250 \text{ Cal}$ b. $2.5 \text{Cal} \rightarrow 10450 \text{ j}$ joules $2.5 \cdot 1000 \cdot 4.18 \text{ j} = 10450 \text{ J}$
- 4. Draw arrows showing a reaction system losing energy?
 - a. Label the system, surroundings, and energy flow.
 - b. On the chart, draw the energy diagram for the system over the course of the reaction.



- - a. Label the system, surroundings, and energy flow.
 - b. On the chart, draw the energy diagram for the system over the course of the reaction



6. On each energy diagram, draw a new line showing how a catalyst will change the reach Some start system.