Name, Date, Period:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Focus on **POTENTIAL ENERGY**

**GRADED ASSIGNMENT**

This assignment has a strict due date and will be given a quiz grade (30 points). You may use your notes. You must do your own work. You may not copy from another individual. Your original work is expected.

Due Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **IDENTIFY:** In the lines provided below, identify by name the five different types of potential energy. Make a conscientious effort to spell them correctly.

a)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ d)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **GRAPHING:** Use an energy bar graph to show three of the types of energy (gravitational potential, elastic potential, and kinetic energy) for a stretched rubber band that is launched straight up into the air. Show bar graphs for **five** different positions: 1) before launching, 2) ¼ the way up, 3) ½ the way up, 4) ¾ the way up, and 5) at the top of its path.

You can use the rest of this sheet and the back. You can also use a separate sheet(s) of graph paper. Recall good graphing skills: title, label both axes, proper spacing, ruled lines, neatness.