

Name: _____

LAB 7 PRE-LAB

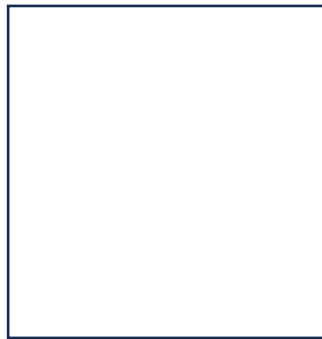
Consider the free-fall portion of the motion of a ball tossed straight upward, starting just as the ball is released to just before it is caught. Assume that there is very little air resistance.

1. What form or forms of energy does the ball have while initially at rest at the top of the path?
2. What form or forms of energy does the ball have while in motion near the bottom of the path?

3. Sketch a graph of velocity vs. time for the ball.



4. Sketch a graph of kinetic energy vs. time for the ball.



5. Sketch a graph of potential energy vs. time for the ball.



6. If there are no frictional forces acting on the ball, how is the change in the ball's potential energy related to the change in kinetic energy?