

Physics Homework

Name _____

Date _____ Period _____

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1) A helicopter has a mass of 7800kg. The helicopter takes off vertically with an acceleration of 1.5m/s^2 . How much work is done while the helicopter moves up the first 50.0m?

2) How much potential energy does the helicopter in #1 have when it reaches the 50.0m height?

3) How much kinetic energy does the helicopter in #1 have when it reaches the 50.0m height?

4) Find the kinetic energy of a 1400kg car traveling 15m/s.

5) How fast would a fly with a mass of 0.45g have to fly to have the same kinetic energy as the car in #4?