## **Energies**

- 1. Object with weight 2 kg is situated at a table in the height 1 m over the floor. Calculate its potential energy with the respect of the floor.
- 2. How many times greater is an objects potential energy when three times higher?
- 3. What is the kinetic energy of a falling stone with the weight 2 kg after 5 seconds of free fall (starting with zero velocity)?
- 4. How many times greater is the kinetic energy of a ball that is going five times faster?

HW: How large is the velocity of a falling 1.2 kg ball, in the moment, when it hits the ground 3.5 meters below? (additional comment: it starts to fall from rest.)