## **EXERCISES**

Friction, gravity, and energy

Complete the simulations and answer the related questions.

 Simulation about friction at <u>tinyurl.com/val-kitka</u>. Rub the surfaces together.

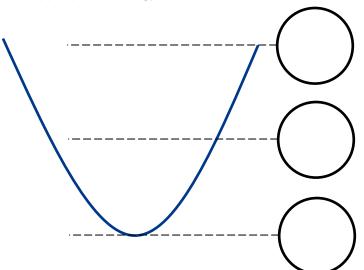


- macro: What changes can you observe in the state of the objects?
- micro: What changes can you observe in the state of the particles?
- 2. Simulation about energy at tinyurl.com/val-energy.



Choose Johdanto.

Toggle the pie chart option on. Choose the U-shaped track. Use the simulation to fill appriopriate energy forms as fractions in the charts below.



• Choose Kitka.

Toggle the pie chart option on. Choose the U-shaped track.

- Describe the motion.
- Let the skater move till a halt. Into which form did the energy of the skater transform? What made the energy deplete?
- kineettinen, or kinetic
- o potentiali, or potential
- lämpö, or thermal