

Friction Exit Card

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1. Which of the following does not involve any friction?
 - a) A bicycle rolling down a hill
 - b) A baseball player sliding into 2nd base
 - c) A diver falling through the air to a pool
 - d) All of the above experience some friction.
2. Friction causes kinetic energy to be converted into
 - a) potential energy.
 - b) thermal energy.
 - c) mechanical energy.
 - d) electrical energy.
3. These two factors determine the strength of the force of friction:
 - a) speed and light
 - b) how fast the objects are going and on what planet
 - c) how big the objects are and how hard you push them
 - d) how hard the surfaces push together and the types of surfaces involved
4. A 5.0 kg steel block is resting on a table. The coefficient of static friction (μ_s) is 0.75 and the coefficient of kinetic friction (μ_k) is 0.57.
 - a) What minimum force is needed to start this block moving?

 - b) What is the frictional force on this object as it moves?