

# Kinetic and Potential Energy Practice Problems

Solve the following problems and show your work!



1. A car has a mass of 2,000 kg and is traveling at 28 meters per second. What is the car's kinetic energy?

2. When a golf ball is hit, it travels at 41 meters per second. The mass of a golf ball is 0.045 kg. What is the kinetic energy of the golf ball?



3. The newly developed F-22 Raptor Jet Fighter (something that Mr. DelliGatti worked on in a previous life) weighs approximately 100,000 kg and can travel up to 600 meters per second. What is the kinetic energy of the F-22 jet fighter at this speed?



4. If the jet fighter in #3 is traveling at a height of 10,000 meters, what would the potential energy be?

5. A bullet from a policeman's handgun travels at 200 meters per second and has a mass of 0.02 kg. What is the bullet's kinetic energy?

# Kinetic Potential Energy Problems Answer Key

**Sabine Zange**



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