KINETIC ENERGY WORKSHEET

- 1. Kinetic energy can be defined as....
- 2. The equation to be used to calculate kinetic energy (E_k) is...
- 3. The SI unit in which E_k is often measured is the ..._____.
- 4. Rodger Maris swung a bat which had a mass of 2 Kg at a velocity of 45 m/s. How many joules of kinetic energy could he give to a ball?
- 5. Barry Bonds swings a bat which has a mass of 1.5 Kg at a velocity of 55 m/s. How many joules of kinetic energy could he give to a ball?
- 6. Which is more important to hitting a home run a heavier bat or a faster swing?
- 7. A golf pro swings his driver which weighs .75 kg at a velocity of 60 m/s. Calculate the kinetic energy of the club.
- 8. Calculate the Ek of a car which has a mass of 1000 kg and is moving at the rate of 20 m/s.
- 9. What is the Ek of a soccer ball which has a mass of 0.8 kg and is kicked at a velocity of 10 m/s?
- 10. Calculate the Ek of a running back that has a mass of 80 kg and is running at a velocity of 8 m/s.