Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**KINETIC ENERGY WORKSHEET**

1. Kinetic energy can be defined as....

2. The equation to be used to calculate kinetic energy (KE) is...

3. The SI unit in which KE 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?

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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 KE of a car which has a mass of 1000 kg and is moving at the rate

of 20 m/s.

9. What is the KE 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 KE of a running back that has a mass of 80 kg and is running at a velocity of 8 m/s.