

# Problems Dalton

Name: \_\_\_\_\_

John Dalton (1766-1844) was the first modern scientist to formulate the theory that everything is made of atoms. He proposed that each element has a unique kind of atom with a unique mass. The Dalton model of atoms pictures the atoms as billiard balls. Dalton was the first person to describe color-blindness, from which he suffered.

1. Which of the following units can be used for heat?

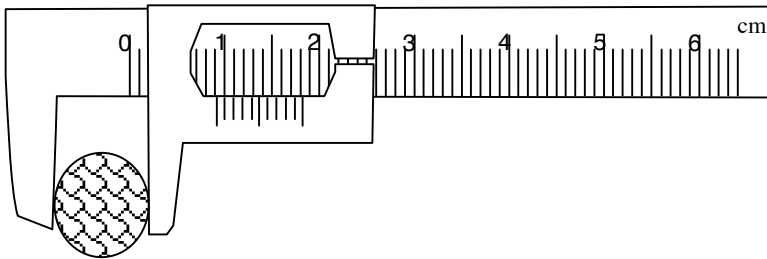
Joule     $\text{kgm}^2/\text{s}^2$      $\text{gcm}^2/\text{s}^2$      $\text{kgm}/\text{s}$

Which of those can be used for GPE?

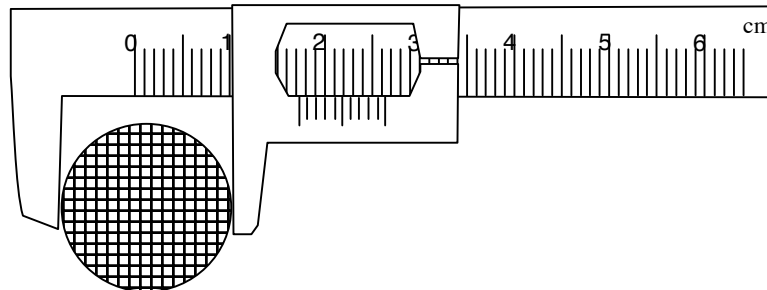
For KE?

In fact, any energy unit can be used for any kind of energy!

2. Read the calipers to get the diameter of the circle:



3. What is the diameter of this circle?



4. A pendulum bob goes 5.3 cm in 0.02 s. What is the speed of the bob in m/s?