# Additional Problems for Dimensional Analysis 

Geology 1P
Mr. Traeger
Name: $\qquad$ Period: $\qquad$ Date: $\qquad$
Work the following problems using dimensional analysis/factor label method. Use the conversion tables given on your metric mayhem worksheet. You absolutely must show your work! Feel free to express your answers in scientific notation. You will need to!

1. Youø̂e going 44 meters/second. How fast are you going in miles/hour?
2. How many liters are there in a bottle that holds 128 ounces of milk?
3. How many seconds are in one year?
4. If there are approximately 6 trillion $\left(6 \times 10^{12}\right)$ miles in one light year, how far away is a star that is 430 light years? Express your answer in kilometers.
5. The Earth (here in La Cañada) rotates at a rate of about 1,000 miles/hour. How fast is this in micrometers/second?
