

SI Units

Quantity	Unit	Symbol
Length	meter	m
Mass	kilogram	kg
Time	second	s
Temperature	kelvin	K
Amt. of a substance	mole	mol
Luminosity	candela	cd
Electric Current	ampere	A
Plane angle	radian	rad

MEASUREMENTS IN PHYSICS

Conversions between English and Metric Units

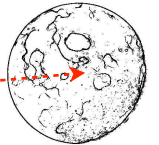
What is the Distance to the Moon in kilometers?

$$239,000 \text{ miles } (\text{—————}) (\text{—————}) = \boxed{} \text{ kilometers}$$

Earth



$$d = 239,000 \text{ mi} =$$



Moon

Keep for my Quizzes and Tests

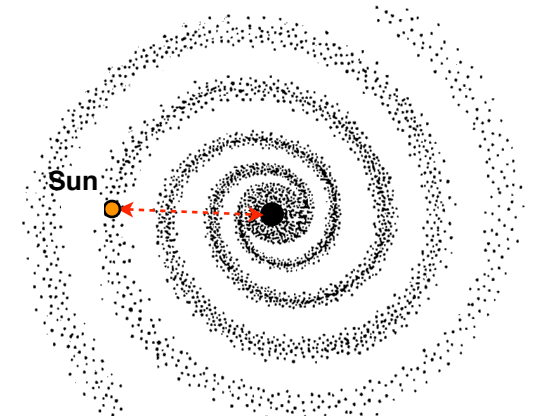
English	English	Metric
1.0 inch		2.54 cm
1.0 foot	12.0 inches	30.48 cm
1.0 mile	5280 feet	1609 m
Metric	Metric	English
1 km	1000 m	0.6214 mi
1 m	100 cm	3.28 ft
1 cm	10 mm	0.3937 in
Metric	Metric	English
1 liter	1000 ml	0.946 quart
1 kilogram	1000 g	2.2 lbs

What is the distance to the center of the Milky Way in kilometers?

$$38,000 \text{ light-years } (\text{—————})(\text{—————})(\text{—————}) = \boxed{} \text{ km}$$

$$\text{speed of light} = 3.00 \times 10^8 \frac{\text{meters}}{\text{second}}$$

$$\text{seconds in a year} = 3.154 \times 10^7 \frac{\text{sec}}{\text{year}}$$



Sun

Milky Way Galaxy

Name _____

ORDINARY PHYSICS PROBLEMS

A typical mosquito has a mass of about 1.5×10^{-5} kg. Use my method to express this measurement in terms of grams and micrograms.



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Estimate the number of breaths a person takes in a lifetime (82 years).

What are the two requirements that define a Scientific Theory?

What is a **Model**? How do scientists use models?
Provide an example of a **scientific model**.

Examples of Scientific Theories

1. _____

2. _____

3. _____

4. _____

