

AR Chemistry Notes: Metrics

LENGTH

MASS

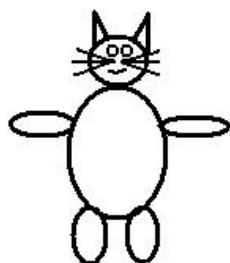
VOLUME

Original
Measurement

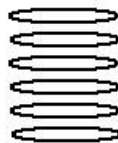
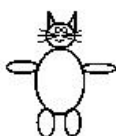
Metric
Standard
(Abbreviation)

Lab
Use

Metric Prefixes (The KILOCAT Story)



Items Are Not Drawn To Scale

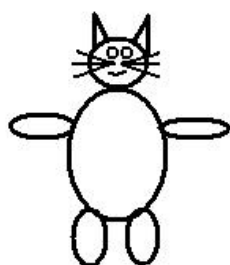


How to Do Conversions [Dimensional Analysis]

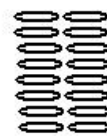
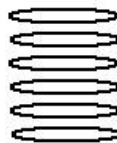
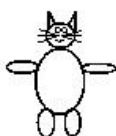
AR Chemistry Notes: Metrics **SI System** (*Système International d'Unités*)

	LENGTH	MASS	VOLUME
Original Measurement	1 / 10,000,000 the distance from equator to North Pole	2.2 lbs	1 cubic meter
Metric Standard (Abbreviation)	meter (m)	kilogram (kg)	cubic meter (m ³)
Lab Use	m	gram (g)	liter (L)

Metric Prefixes (The KILOCAT Story)



Items Are Not Drawn To Scale



1 kilocat is as large as 1000 cats

1 kilocat = 1000 cats

Each cat eats 100 centipedes, 1000 millipedes, and 1,000,000 micropedes

1 cat = 100 centipedes = 1000 millipedes = 1,000,000 micropedes

How to Do Conversions [Dimensional Analysis]

1. Write '# word' on left, 'new word' on right
2. Plan a "Word Path"
3. Make a conversion bar (-----) for each word change in your path
4. Put 'new words' on top, 'old words' on bottom of conversion bar.
5. Put numbers on conversion bars so the top and bottom are actually EQUAL
6. Multiply top numbers and divide by bottom numbers to get NUMERICAL ANSWER