

Name _____ Period _____

College Prep Chemistry of the Earth System

Assignment 00 – Metric Prefixes and Conversions

20 Points

Name each prefix below, and give the prefixes relative size/amount of units to base unit

Prefix	micro	milli	centi	base	kilo	Mega
Letter symbol	μ	m	c	—	k	M
Relative Size						
# in Base Unit						
Conversion	100000 1000000	1000	100	1	0.001	0.000001

Convert the following measurements from one prefix to another using the charts provided

Convert 395.2g to mg	
mass (mg)	X

Convert 0.239kg to g	
mass (g)	

Convert 422.06mL to L	
422.06 mL	1 L
	1000 mL
Volume (L)	0.42206 L

Convert 0.743L to mL	
Volume (mL)	

Convert 58.3m to km	
Length (km)	

Convert 232.7m to cm	
232.7 m	100 cm
	1 m
Length (cm)	232700 cm

Convert 386.1mm to cm	
Length (cm)	

Convert 5325.6mm to km	
5325.6 mm	0.001 km
	1000 mm
Length (km)	0.0053256 km

Base "1"
mL
prefix "1000"

cm
prefix (centi) (100)
m

"base" 1

km
"0.001"

mm
"1000"