

Table 1.1

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<b>Table 1.1    Some Common Elements and Their Symbols</b>					
<b>Name</b>	<b>Symbol</b>	<b>Name</b>	<b>Symbol</b>	<b>Name</b>	<b>Symbol</b>
Aluminum	Al	Fluorine	F	Oxygen	O
Arsenic	As	Gold	Au	Phosphorus	P
Barium	Ba	Hydrogen	H	Platinum	Pt
Bromine	Br	Iodine	I	Potassium	K
Calcium	Ca	Iron	Fe	Silicon	Si
Carbon	C	Lead	Pb	Silver	Ag
Chlorine	Cl	Magnesium	Mg	Sodium	Na
Chromium	Cr	Mercury	Hg	Sulfur	S
Cobalt	Co	Nickel	Ni	Tin	Sn
Copper	Cu	Nitrogen	N	Zinc	Zn

Figure 1.5

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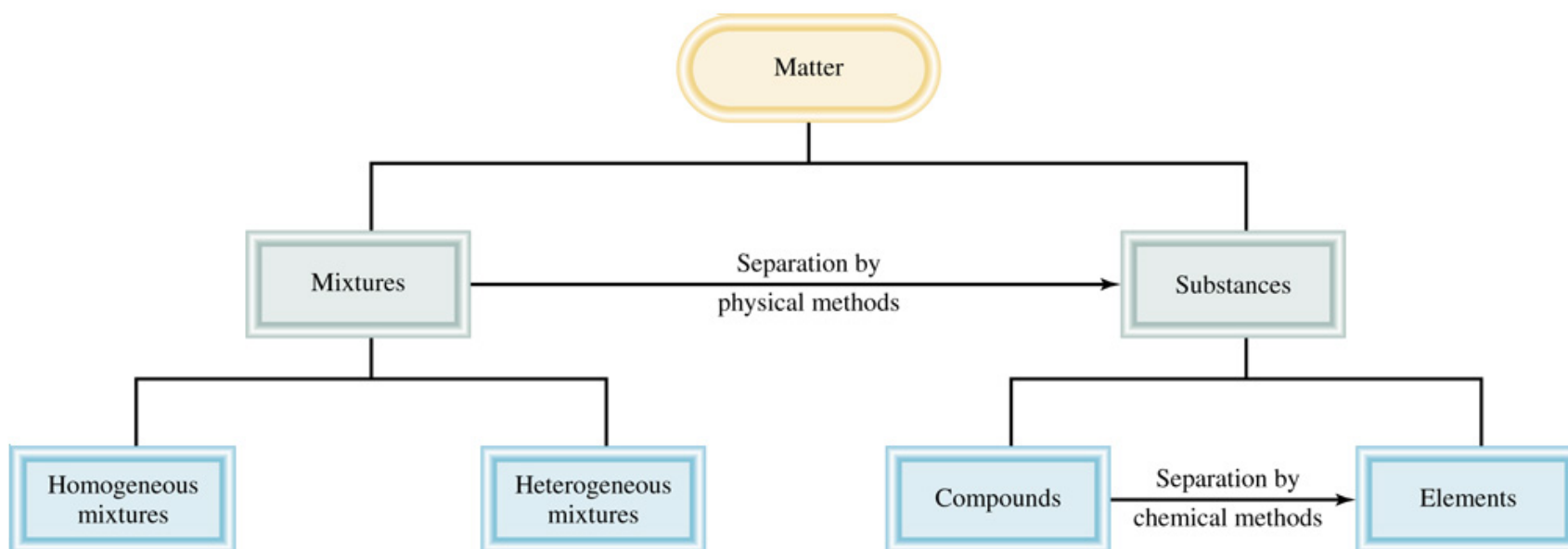


Table 1.2

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<b>Table 1.2   SI Base Units</b>		
<b>Base Quantity</b>	<b>Name of Unit</b>	<b>Symbol</b>
Length	meter	m
Mass	kilogram	kg
Time	second	s
Electrical current	ampere	A
Temperature	kelvin	K
Amount of substance	mole	mol
Luminous intensity	candela	cd

Table 1.3

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<b>Table 1.3 Prefixes Used with SI Units</b>			
<b>Prefix</b>	<b>Symbol</b>	<b>Meaning</b>	<b>Example</b>
tera-	T	1,000,000,000,000, or $10^{12}$	1 terameter (Tm) = $1 \times 10^{12}$ m
giga-	G	1,000,000,000, or $10^9$	1 gigameter (Gm) = $1 \times 10^9$ m
mega-	M	1,000,000, or $10^6$	1 megameter (Mm) = $1 \times 10^6$ m
kilo-	k	1,000, or $10^3$	1 kilometer (km) = $1 \times 10^3$ m
deci-	d	1/10, or $10^{-1}$	1 decimeter (dm) = 0.1 m
centi-	c	1/100, or $10^{-2}$	1 centimeter (cm) = 0.01 m
milli-	m	1/1,000, or $10^{-3}$	1 millimeter (mm) = 0.001 m
micro-	$\mu$	1/1,000,000, or $10^{-6}$	1 micrometer ( $\mu$ m) = $1 \times 10^{-6}$ m
nano-	n	1/1,000,000,000, or $10^{-9}$	1 nanometer (nm) = $1 \times 10^{-9}$ m
pico-	p	1/1,000,000,000,000, or $10^{-12}$	1 picometer (pm) = $1 \times 10^{-12}$ m

Table 1.4

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**Table 1.4****Densities of Some  
Substances at 25°C**

<b>Substance</b>	<b>Density (g/cm<sup>3</sup>)</b>
Air*	0.001
Ethanol	0.79
Water	1.00
Mercury	13.6
Table salt	2.2
Iron	7.9
Gold	19.3
Osmium <sup>†</sup>	22.6

\* Measured at 1 atmosphere.

† Osmium (Os) is the densest element known.

Figure 1.10

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