

Some Common Elements		
Name of Element	Symbol	Origin of Element's Symbol
<b>Gases at room temperature</b>		
hydrogen	H	<i>Hydros genes</i> = water forming
helium	He	<i>Helios</i> = sun
neon	Ne	<i>Neon</i> = new
nitrogen	N	<i>Nitron</i> = saltpetre (an explosive)
oxygen	O	<i>Oxys genes</i> = acid forming
fluorine	F	<i>Fluere</i> = Latin for flowing
chlorine	Cl	<i>Chloros</i> from <i>khloros</i> = pale green
<b>Liquids at room temperature</b>		
bromine	Br	<i>Bromos</i> = smelly
mercury	Hg	<i>Hydrargyrum</i> = Latin for liquid silver
<b>Solids at room temperature</b>		
lithium	Li	<i>Lithos</i> = stone
sodium	Na	<i>Natrium</i> = Latin for sodium
potassium	K	<i>Kallium</i> = Latin for potash
rubidium	Rb	<i>Rubidus</i> = Latin for red
cesium	Cs	<i>Caesius</i> = Latin for bluish-grey
beryllium	Be	<i>Beryllus</i> = emerald
magnesium	Mg	<i>Magnesia alba</i> = a place in Greece
calcium	Ca	<i>Calx</i> = Latin for limestone
strontium	Sr	<i>Strontian</i> = a village in Scotland
barium	Ba	<i>Barys</i> = heavy
titanium	Ti	<i>Titans</i> = gods from Greek mythology
chromium	Cr	<i>Chroma</i> = colour
manganese	Mn	<i>Magnesia negra</i> = Latin for black magnesium
iron	Fe	<i>Ferrum</i> = Latin for iron
cobalt	Co	<i>Cobald</i> from <i>kobold</i> = German for goblin
nickel	Ni	<i>kupfer Nickel</i> = German for devil's copper
copper	Cu	<i>Cuprum</i> = Latin for Cyprian
zinc	Zn	<i>Zink</i> = German for zinc
silver	Ag	<i>Argentum</i> = Latin for silver
gold	Au	<i>Aurum</i> = Latin for gold
tin	Sn	<i>Stannum</i> = Latin for tin
lead	Pb	<i>Plumbum</i> = Latin for lead
carbon	C	<i>Carbo</i> = Latin for coal
phosphorus	P	<i>Phosphoros</i> = bringer of light
sulphur	S	<i>Sulphurium</i> = Latin for sulphur
iodine	I	<i>Iodes</i> = violet

Name \_\_\_\_\_

Date \_\_\_\_\_

**Extension  
Activity****Section 2.1**

Use with textbook pages 43–44.

**Element names**

1. Identify the element based on the clues given. The first one is done to help guide you.

	General clue	Element
(a)	policeman	copper.
(b)	to press clothes	
(c)	planet closest to the Sun	
(d)	5 cents	
(e)	to be shown the way	

2. What is the English name for each of these Latin names of elements?

(a) *plumbum* \_\_\_\_\_ (e) *natrium* \_\_\_\_\_(b) *ferrum* \_\_\_\_\_ (f) *kalium* \_\_\_\_\_(c) *argentum* \_\_\_\_\_ (g) *fluere* \_\_\_\_\_(d) *carbo* \_\_\_\_\_ (h) *hydrargyrum* \_\_\_\_\_

3. Which elements' names have the following meanings?

(a) bringer of light \_\_\_\_\_ (e) emerald \_\_\_\_\_

(b) stone \_\_\_\_\_ (f) heavy \_\_\_\_\_

(c) violet \_\_\_\_\_ (g) sun \_\_\_\_\_

(d) colour \_\_\_\_\_ (g) smelly \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

**Comprehension****Section 2.1***Use with textbook pages 43-44.*

## Learning chemical symbols

**Write the element name in the blank beside its symbol.****1.** Symbols that come from the first letter of the element's name

- (a) P \_\_\_\_\_ (d) I \_\_\_\_\_  
 (b) S \_\_\_\_\_ (e) F \_\_\_\_\_  
 (c) O \_\_\_\_\_ (f) N \_\_\_\_\_

**2.** Symbols that come from the first two letters of the element's name

- (a) He \_\_\_\_\_ (c) Be \_\_\_\_\_  
 (b) Li \_\_\_\_\_ (d) Ne \_\_\_\_\_

**3.** Symbols that come from the first letter and another letter in the name

- (a) Cl \_\_\_\_\_ (c) Zn \_\_\_\_\_  
 (b) Mg \_\_\_\_\_ (d) Mn \_\_\_\_\_

**4.** Symbols that come from the name of the element in Latin

- (a) Pb \_\_\_\_\_ (e) Cu \_\_\_\_\_  
 (b) Au \_\_\_\_\_ (f) Fe \_\_\_\_\_  
 (c) Ag \_\_\_\_\_ (g) Na \_\_\_\_\_  
 (d) Sn \_\_\_\_\_ (h) Rb \_\_\_\_\_

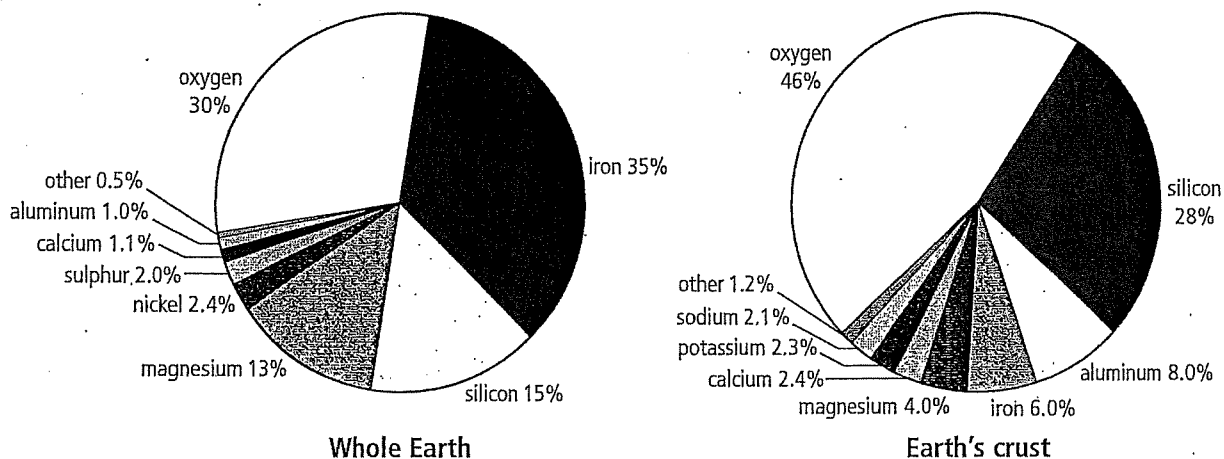
**5.** Use the chemical symbols to write three English words. An example is provided for you.

English word	Symbols	Names of elements used
none	N-O-Ne	nitrogen-oxygen-neon

Use with textbook pages 43–44.

## Elements in Earth's crust

The following pie charts show the most abundant elements (by mass) in the whole Earth and in Earth's crust (the surface layer of Earth).



1. Use the information in the pie charts to help you complete the following table.

	Most common element	Second most common element	Third most common element
in the whole Earth			
in Earth's crust			

2. Aluminum, calcium, nickel, magnesium, iron, sodium, and potassium are all metals.

(a) Approximately what percentage of the whole Earth is made of metals?

\_\_\_\_\_

(b) Approximately what percentage of Earth's crust is made of metals?

\_\_\_\_\_