

# Contents

| TEA | CHER |     | DE |
|-----|------|-----|----|
| ILA |      | GUI | DL |

| • Assessment Rubric                          | 4 |
|--|---|
| • How Is Our Resource Organized?             | 5 |
| • Bloom's Taxonomy for Reading Comprehension | 6 |
| • Vocabulary                                 | 6 |

### **STUDENT HANDOUTS**

| <ul> <li>Reading Comprehension</li> </ul> |
|---|
| 1. What Are Atoms?                        |
| 2. What Are Molecules?                    |
| 3. What Are Elements?                     |
| 4. What Are Compounds?                    |
| 5. The Periodic Table                     |
| 6. Patterns In the Periodic Table         |
| 7. Properties of Important Elements       |
| • Hands-on Activities                     |
| • Crossword                               |
| • Word Search                             |

EZY EASY-MARKING™ ANSWER KEY 19

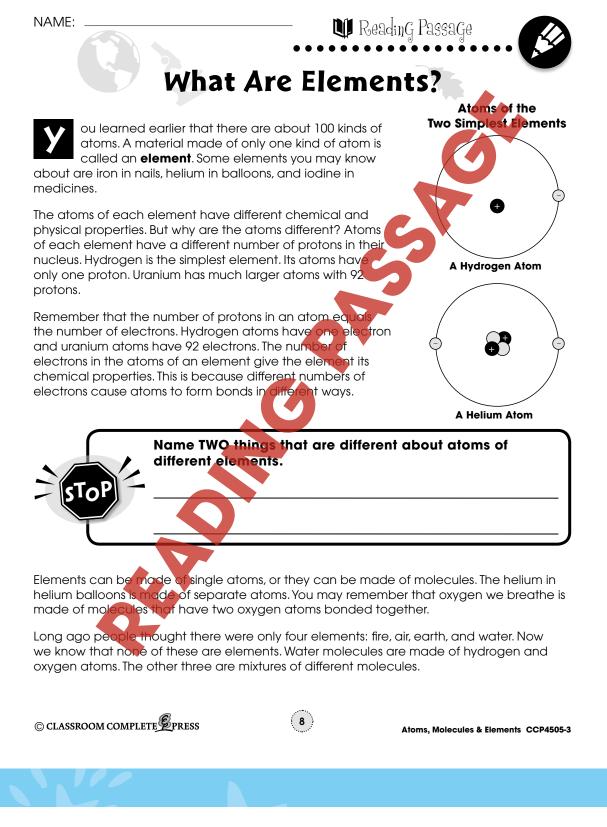
## FREE! 6 Bonus Activities!

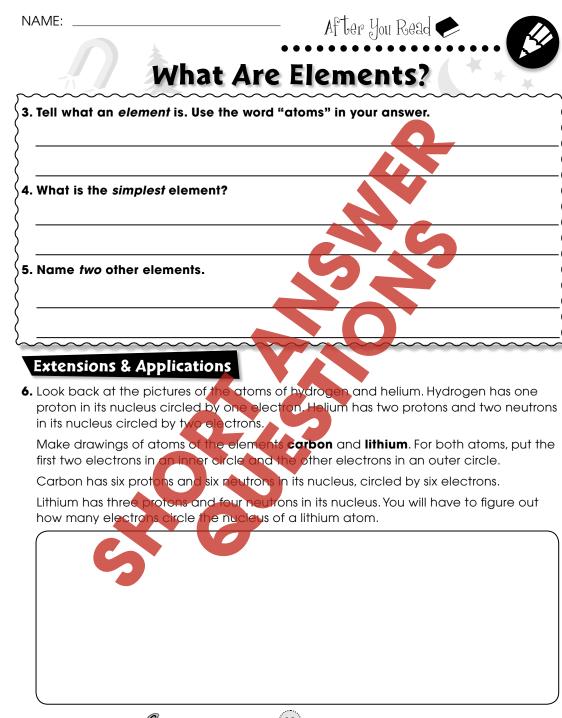
**3 EASY STEPS** to receive your 6 Bonus Activities!

- Go to our website:
  - www.classroomcompletepress.com\bonus
- Click on item CC4505 Atoms, Molecules & Elements
- Enter pass code CC4505D



|             | <b>\</b>   |             | <b>W</b> Before You                      | ı Read         | NAME:            |              |                    |                  |
|-------------|------------|-------------|--|----------------|------------------|--------------|--------------------|------------------|
| 6           | 9.         | • • •       | ••••••                                   | •••••          | •                | A            |                    |                  |
|             |            |             | Lath a                                   |                | Fla              |              |                    | XOX              |
|             |            |             | wha                                      | t Are          | Flem             | ents         | ?                  |                  |
| <b>74</b>   |            | <b>▲</b> ▼< |  | <b>A</b>       | 44444            |              |                    | AV4AV4 X         |
| . (Ci       | ircle      | O           | if the stateme                           | ent is TRUE    | or 🖪 if it       | t is FALSE   |                    | À                |
| _           | _          |             |  |                |                  |              |                    |                  |
| T           | F          | a)          | There are about                          | 100 differen   | t kinds of at    | toms.        |                    | *                |
| T           | F          | b)          | Molecules conto                          | ain two or ma  | ore atoms.       |              |                    | *                |
| T           | F          | c)          | Fire, air, earth, an                     | nd water are   | all element      | ts.          |                    | 4                |
| T           | F          | d)          | Forming rust is a                        | chemical pr    | roperty of in    | on.          |                    |                  |
| Т           | F          | e)          | All atoms have t                         | he same nu     | mber of ele      | ctrons.      |                    |                  |
| т           | F          | f)          | All atoms are the                        |                |                  |              |                    |                  |
| •           | •          | ',          | All GIOTIS GIC ITI                       | S James Size.  |                  |              |                    |                  |
| <b>\</b> ▼< | I▲▼≺       | (▲▼         | <b>447474474</b>                         | 1474744        | <b>~ ~ ~ ~ ~</b> | <b>4444</b>  | <b>74 A74 7</b>    | 444444           |
| . Dro       | ıw on      | e lin       | e from each wor                          | d on the left  | to its mea       | ning.        |                    |                  |
|             |            | _           | <u></u>                                  |                |                  |              |                    |                  |
| k           | oonds      |             | a the po                                 | arts of an ato | om equal in      | number to    | the atom's         | electrons        |
| ch          | nemic      | al          | <b>b</b> the pro                         | perties that   | tell how and     | d when an    | atom forms         | s molecules      |
|             |            | _           |  |                |                  |              |                    |                  |
| ele         | ectror     | าร          | C  | the conr       | nections the     | at hold ato  | ms togethe         | r                |
| ele         | emen       | ts          | d :                                      | mate           | rials made (     | of one kind  | <br>Lof atom       |                  |
| 011         |            |             | <u> </u>                                 |                |                  |              |                    |                  |
| р           | roton      | S           | е  | the parts      | of an atom       | that circle  | the nucleu         | IS               |
| CT A        | CCDOOL     | 4.00        | APLETE PRESS                             | (              | 7                |              |                    |                  |
| CLA         | SSKOO      | VI CON      | AFLETE PERKESS                           | ·.             | · Lander         | Atoms        | s, Molecules & Ele | ements CCP4505-3 |
|             |            |             |  |                |                  |              |                    |                  |
|             |            |             |  |                |                  |              |                    |                  |
|             |            |             |  |                |                  |              |                    |                  |
|             | <b>\</b>   |             | After You Re                             | ad 🔷           | NAME: .          |              |                    |                  |
| P           | 9.         | ••          | •••••                                    |                | •                |              |                    |                  |
|             |            | 4           | Wha                                      | t Are          | Flem             | ents         | 2                  |                  |
| 1           | Dut        | a ch        | eck mark (√) ne                          |                |                  |              |                    |                  |
|             |            |             | , ,                                      |                | iswei iliai i    | is illusi co |                    |                  |
|             | a)         | Hov         | <i>i</i> many elements                   | are there?     |                  |              |                    |                  |
|             |            | $\circ$     | <ul><li>A three</li><li>B four</li></ul> |                |                  |              |                    |                  |
|             |            | 0           | <b>c</b> about 100                       |                |                  |              |                    |                  |
|             |            | 0           | <ul><li><b>D</b> many millions</li></ul> |                |                  |              |                    |                  |
|             | <b>h</b> ) | \A/L-       |  |                | have the         |              | niad pro-          | ortios?          |
|             | D)         | wny         | do all atoms of                          | un eiemen      | nave me          | saine che    | mcai prop          | eriie\$?         |
|             |            | 0           | A They all have                          |                |                  |              |                    |                  |
|             |            | $\circ$     | <b>B</b> Their electrons                 | s all have the | e same chai      | ge.          |                    |                  |





c) Long ago, people believed there were four elements: fire, air, earth,

and water How many of these are called elements today?

O c They all have the same number of neutrons.

O **D** They all have the same number of electrons.

О c

#### The Lives of Elements

Choose several elements and see how many interesting FACTS you can find out about them.

Some things you might look for are:

- When the element was discovered
- Why its symbol doesn't sound like its name
- What its name means—was it named after a person?
- Where on Earth it can be found
- What it is used for
- What unusual properties it has

For example, the metal element tungsten has the symbol W because "wolfram" is the German word for tungsten. Tungsten was discovered by Carl Scheele in 1783. Tungsten has the highest melting point of any metal. The glowing wire in the middle of a light bulb is made of tungsten.

You will find interesting facts about most of the elements. You might try **one** element each from groups 1, 17, and 18, and **one on two** of the metals in the middle of the periodic table.



© CLASSROOM COMPLETE PRESS



Atoms, Molecules & Elements CCP4505-3

#### NAME: **W** Reading Passage Comprehension Quiz Part B

Answer each question in complete sentences.

of particles.

Use the word "particle" to explain what a pure material is. Name the two kinds



Use the words "atom" and "material" to explain what an element is.



Use the words "element" and "material" to explain what a **compound** is.



Tell how the elements in a "group" in the periodic table are arranged. Use the word "electrons" to explain why elements in a group have the same kind of properties. Where are the elements with the smallest atoms found in a group?



Where are the metals, nonmetals, and inert gases found in the periodic table?



SUBTOTAL: /16

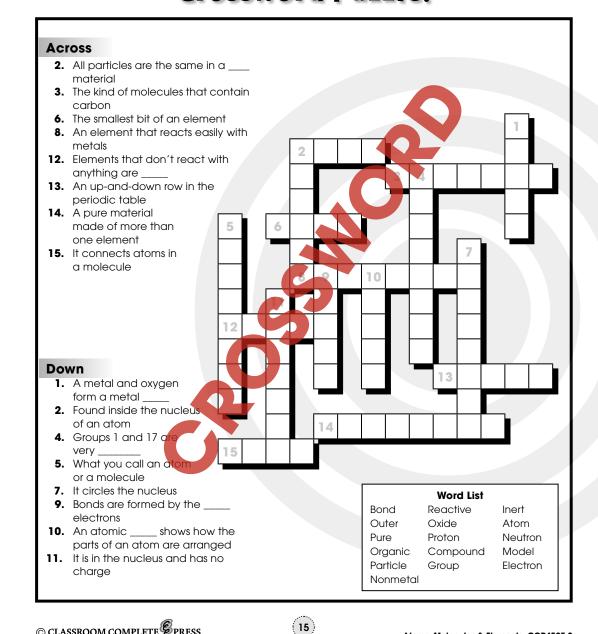
Atoms, Molecules & Elements CCP4505-3



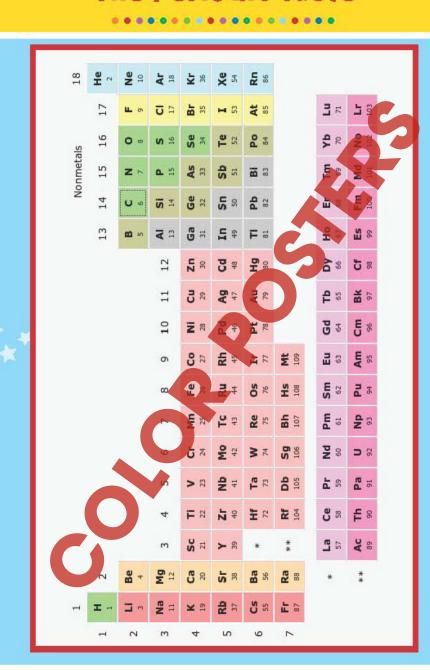
After You Read

NAME:

#### **Crossword Puzzle!**



### The Periodic Table



© CLASSROOM COMPLETE PRESS

Atoms, Molecules & Elements CCP4505-3

| 3.                                    | Fluorine: |
|---------------------------------------|-----------|
| A material made of one kind of atom   | 10N gp    |
| Hydrogen has the simplest atoms       | Neon:     |
| <b>5.</b> Answers will vary <b>6.</b> | 10N 10P   |
| Lithium atom                          | Sodium:   |
| Carbon atom                           | SM        |

 $\langle 11 \rangle$ 

TER KEY



Atoms, Molecules & Elements CCP4505-3