

**SCIENCE PUZZLERS, TWISTERS & TEASERS**

*Cells: The Basic Units of Life*

**Endosymbiotic Simulation City**

- Imagine that you are a recognized world expert on cells. Baron Von Dukenheimer is the leader of a medieval walled city, and he needs your help. It seems that someone has told him that his city is about 600 years behind the times. The Baron knows that one of the most spectacular systems in nature is the cell, and he hopes to learn something about organization and production from you, the cell expert. You tell him that the cell is a lot like a city. Help him understand how the parts of a cell work by writing in the appropriate space something you'd find in a city that performs the same function in the cell.

Example: endoplasmic reticulum → \_\_\_\_\_ postal system \_\_\_\_\_

a. vacuole → \_\_\_\_\_

b. nucleus → \_\_\_\_\_

c. lysosomes → \_\_\_\_\_

d. ribosomes → \_\_\_\_\_

**Word Connections**

- Each of the following sentences includes at least one hidden word from the chapter. These words can be found by looking at part of one word and connecting it to the beginning of the next word. For example, the word *dog* could be hidden in the words *Judo games*. Circle the hidden words below.

a. She speaks to the flock, though neither goose nor gander understand her.

b. I love the glockenspiel, though I must say that the organ is my favorite instrument.

c. Once llamas have moved in to your neighborhood, it is very difficult to get rid of them.

d. Desi's Uncle Otis sued for damages in a court of law.

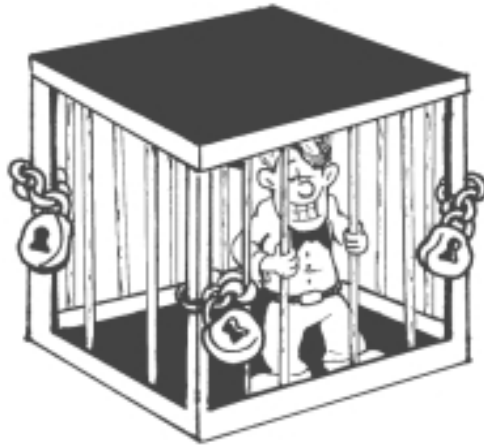
**Cells: The Basic Units of Life, continued**

**Cell Break**

3. Harvey Hoodrini is the town's most talented escape artist. For the state fair, Perry Mecium has created a cell that he thinks even Harvey can't break out of. Four walls of the cell use a special combination of letters and numbers to release the locks. Once all four locks are released, they will reveal a message that explains how to get out of the cell.

Unscramble the chapter terms surrounding Harvey's cell and write them in the boxes. Vertical words should be written from top to bottom. Then use the letters from the numbered squares to decode the secret message.

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Phrase: 1 2 3 4 5 6 7 8 9 10 11 12 13

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