

Name: _____

PAGE 8 **Plumped Up Portions**

DIRECTIONS: Use information in the article to help you *defend* or *dispute* the statements below. (**Hint:** Defend means to explain why a statement is correct. Dispute means to explain why a statement is incorrect.)

1. Americans are now consuming hundreds more calories per day than they did a generation or two ago.
2. People are good at judging how much food they consume.
3. The portion sizes in *The Joy of Cooking* have remained the same since the 1930s.

PAGE 12 **Futuristic Wheels**

DIRECTIONS: Answer the following questions in complete sentences.

1. What makes the SOHH different from an ordinary bike?
2. What is green technology? Why is the SOHH considered a green technology?
3. Where does the SOHH's energy come from?
4. Can the SOHH be used for long-distance travel? Why or why not?

PAGE 14 **Name That Element!**

DIRECTIONS: Fill in the blanks to complete the following sentences.

1. Rubies are the mineral _____ containing traces of chromium.
2. Chromium combines with _____ to create a yellow pigment that once was used to paint school buses.
3. A stainless steel razor blade is an _____ that contains chromium; this element keeps the blades from _____.
4. Car manufacturers bond chromium to the nickel in wheels using an _____ process to prevent scratching and tarnishing.

Name: _____

PAGE **18** **Ingredients for a Good Hair Day****DIRECTIONS:** Use your own words to define the following terms. Use complete sentences.

1. follicles
2. sebum
3. polar molecule
4. cuticle

PAGE **20** **Would You Drink Toilet Water?****DIRECTIONS:** The sentences below describe events that Orange County, California, uses to transform its sewage into drinking water. In the blanks below, place the letters of the sentences in the order the events occur from first to last.

- a. Sewage runs through pipes that lead to the sewage treatment plant.
- b. Water seeps into the groundwater basin, where it will eventually be pumped out and end up back in people's taps.
- c. Treated water undergoes a three-step purification process to remove salt, chemicals, prescription drugs, chemicals, and viruses.
- d. Sewage is treated to the point where it is clean enough that technically it could be dumped into the ocean.
- e. A person flushes the toilet.
- f. Half of the water is injected into the coast to prevent salty water from flowing into the groundwater basin, and the other half is pumped into lakes.

First → _____, _____, _____, _____, _____, _____ ← Last

PAGE **22** **Your Teenage Brain****DIRECTIONS:** Match the words in the left column with the word or phrase in the right column.

- | | |
|---------------------------|--|
| ____ 1. gray matter | a. white, fatty substance that insulates nerve cells |
| ____ 2. white matter | b. slow, regular waves that occur during the deepest part of the sleep cycle |
| ____ 3. synapses | c. area of the brain that governs insight, judgment, planning, and the interpretation of social cues |
| ____ 4. myelin | d. connective tissue that links the different areas of the brain |
| ____ 5. prefrontal cortex | e. wrinkly outer layer of brain tissue that processes and stores information |
| ____ 6. delta waves | f. connections between neurons in the brain |

PAGE **26** **Phones, Facebook, and the Environment****DIRECTIONS:** Answer the following questions in complete sentences.

1. What tools did the students at Urban School use to track their carbon dioxide emissions?
2. What lifestyle changes does the article mention that can reduce your carbon footprint?
3. How is the Go Green Foundation planning to expand its program?