

Name: _____

PAGE **8** **Wheelchair Wheelies**

DIRECTIONS: The article explains two differences between Aaron's "hardcore sitting" and conventional skateboarding. Explain the differences using the terms *center of gravity* and *angular moment of inertia* in your answer.

PAGE **12** **Name That Element!**

DIRECTIONS: Match the word(s) in the left column with the correct phrase in the right column.

- | | |
|-------------------------|---|
| ___ 1. density | a. combination of metals |
| ___ 2. radiation | b. extra weight added to a race car for balance |
| ___ 3. period | c. column on the periodic table |
| ___ 4. ballast | d. high-energy waves used in cancer treatment |
| ___ 5. transition metal | e. temperature at which solids change to liquids |
| ___ 6. alloy | f. negatively charged particles |
| ___ 7. electron | g. row on the periodic table |
| ___ 8. melting point | h. a classification of a cluster of elements on the periodic table (Hint: Copper is one.) |
| ___ 9. group | i. an element's smallest unit |
| ___ 10. atom | j. how tightly atoms are packed together in matter |

PAGE **16** **Bats Striking Out**

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

- _____ wood is the material used to make the majority of today's bats.
- The _____ is how straight the fibers are along a piece of wood.
- An _____ called the emerald ash borer beetle is killing off North America's ash trees.
- To combat breaking bats, Major League Baseball is placing small _____ on bats to allow the slope of grain to become more visible.
- The strongest surface of a wooden bat cuts across a tree's _____, where the grain is closest together.