

Name: _____

HEAD TO HEAD, Page 8

DIRECTIONS: Fill in the blanks in the following sentences. Use the words in the word bank below.

apex	electrodes	forebrain	run
concussion	electroencephalogram	frequency	shock
diagnose	football	reaction time	soccer
electricity	force threshold	rest	temperature

1. A(n) _____ can occur when a force causes the brain to move around in the skull.
2. Brain cells create waves of _____ when they communicate.
3. Doctors may test a person's _____ to help determine if he or she has a concussion.
4. A person who has a concussion should _____.
5. Further testing needs to be done on Braeden's impact sensor device to determine the correct _____.
6. A(n) _____ can be used to measure a person's brain activity.
7. It can be difficult to _____ a concussion.
8. EEGs use _____ to measure brain activity.
9. Braeden found that a person with a concussion has a lower _____ of brain waves than normal.
10. The high school sport with the highest number of concussions for girls is _____.

BATTLING BUGS, Page 12

DIRECTIONS: Read each statement and decide whether it is true (T) or false (F). Write your response in the space provided.

- _____ 1. Mosquitoes are responsible for more than half a million human deaths each year.
- _____ 2. Shantanu thinks the best way to control mosquitoes is with insecticides.
- _____ 3. Only female mosquitoes feed on blood.
- _____ 4. A single sound frequency attracts all male mosquitoes.
- _____ 5. Dengue fever is currently present on every continent.

Name: _____

TAKING ON WORLD HUNGER, Page 14

DIRECTIONS: Match each item in the left-hand column below with its definition or description in the right-hand column.

- | | |
|--|---|
| _____ 1. nodules | a. a diverse group of microscopic organisms, most of which are harmless or beneficial, although a few can cause disease |
| _____ 2. rhizobia | b. process by which a seed sprouts |
| _____ 3. bacteria | c. raw material that root bacteria capture from the atmosphere |
| _____ 4. <i>Streptococcus pyogenes</i> | d. a group of crop plants that includes barley and wheat |
| _____ 5. ecologist | e. a beneficial relationship between two organisms |
| _____ 6. nitrogen gas | f. a nutrient that root bacteria produce, which helps plants grow |
| _____ 7. ammonia | g. a microorganism that causes strep throat |
| _____ 8. mutualism | h. a scientist who studies how organisms interact with one another and their environment |
| _____ 9. grains | i. a type of microorganism that normally lives on the roots of bean and pea plants |
| _____ 10. germination | j. bumps of the roots of plants |

QUAKE PROOF, Page 20

DIRECTIONS: Answer the following questions in complete sentences.

1. What is the epicenter of an earthquake? _____

2. According to the article, what led to most of the destruction of buildings in Haiti? _____

3. Why are Pringles designed the way they are? _____

4. What are two benefits of using bamboo instead of concrete to construct buildings to withstand earthquakes? _____

5. What evidence suggests that the students' bamboo house is a better design than one made of unreinforced concrete? _____

