

Name: _____

YOUR NEW BEST FRIEND, Page 6

DIRECTIONS: Answer the following questions in complete sentences.

1. What evidence described in the article supports the idea that pets help people relax? _____

2. What two features did engineers of Sony's AIBO include to make it seem more doglike? _____

3. Explain how Alan Beck compared people's interactions with robotic pets to their interactions with live animal pets.

4. What physiological evidence suggests that people do not respond the same way to robot pets as they do to real dogs?

5. According to the article, what is the purpose of the hormone oxytocin? _____

WHAT DO YOU SEE? Page 8

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

- | | |
|----------------------------------|------------------------------------------------------------------------------------|
| _____ 1. color vision deficiency | a. light-detecting cell in the eye |
| _____ 2. visual acuity | b. people who have only two of the three typical color-detecting pigments |
| _____ 3. cone | c. the part of the eye that contains cones |
| _____ 4. pigment | d. sharpness of eyesight |
| _____ 5. wavelength | e. clear coating on the front of the eye |
| _____ 6. X chromosome | f. may include difficulty distinguishing certain colors or absence of color vision |
| _____ 7. trichromats | g. people who have three color-detecting pigments in their eyes |
| _____ 8. dichromats | h. light-sensitive molecule |
| _____ 9. retina | i. plays a role in determining a person's sex |
| _____ 10. cornea | j. distance between the peaks of a wave |

Name: _____

FIRESTORM, Page 14

DIRECTIONS: Choose the best word or phrase from the box below to fill in the blanks in the following sentences.

5 million	controlled burn	fire danger rating	high rainfall
200 billion	disaster zone	fire season	infrared scanners
arson	ecologist	geologist	low humidity
climate change	fireworks	heat index	oxygen

1. More than _____ acres of Alaskan forest have burned so far this year.
2. A(n) _____ is a scientist who studies the connection between living things and their environment.
3. People who start destructive fires on purpose are committing _____.
4. _____ are among the most common accidental fire starters.
5. _____ is the period when wildfires are most likely to ignite and spread.
6. Two factors that increase the chance of naturally occurring wildfires are hot temperatures and _____.
7. Fire needs _____ from the air to keep burning.
8. Scientists believe warming temperatures caused by _____ are partly to blame for the increase in wildfires.
9. _____ can help firefighters “see” through smoke to figure out where fires are burning.
10. A _____ is a carefully managed wildfire set on purpose to reduce the risk of large future fires.

NAME THAT ELEMENT! Page 20

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

- _____ 1. An ore is a rock in which minerals and metals are found.
- _____ 2. The mystery element is used to make materials that are heavier than steel.
- _____ 3. The mystery element is often used on airplanes because it doesn't easily corrode.
- _____ 4. Biocompatible materials react easily with body tissues.
- _____ 5. The mystery element is used in some sunscreens because it absorbs harmful ultraviolet rays.