Words That Color Our World!

We use the names and images of colors to express our feelings and ideas. We give colors meanings! Can you match these expressions to their *true blue* meanings?

1. show a green - eyed monster
2. a black cloud over one's head
3. have a yellow streak
4. see red
5. feel blue
6. have a heart of gold

A. feel sad
B. be a coward
C. be jealous
D. have a big problem
E. become very angry
F. be a kind person

1. blue + yellow = A. orange
2. red + blue = B. pink
3. yellow + red = C. green
4. red + white = D. purple

The three primary colors are red, blue and yellow. If you have red, blue and yellow paints, you can combine them in different amounts to make almost any color. Which colors do you think you can make if you mix the colors on the left below? Draw a line to the color on the right:

- blue + yellow = A. orange
- red + blue = B. pink
- yellow + red = C. green
- red + white = D. purple

The Science of Seeing Color

Color is wonderful! But, how do we see color?

Read the clues to fill in this puzzle!

1. Do you know how we are able to see ___?
2. It all has to do with ___ and how our eyes see it.
3. Light ___ in tiny bits and different size wavelengths.
4. When we look at an object, its surface bounces or ___ some wavelengths of light and not others.
5. We ___ the wavelengths of light that are bounced off.
6. They enter our ___ , which have cells shaped like rods and cones that can sense the light.
7. This information is sent out the back of our eyes, along the optic ___ to our brains.
8. Our ___ tell us that the grass is green or the sky is blue!

Colors in the Spotlight!

When an object – in this case, an apple – is exposed to sunlight, it absorbs some parts (wavelengths) of the light, but not all.

Some of the wavelengths of the light get reflected. When we look at the apple, this reflected light strikes millions of special cells (cones) in our eyes. The information from the cones is sent to our brains, which tell us that the apple is a lovely red!

Read the clues to fill in the "colorful" crossword:

1. players wear the colors of their __________
2. red roses = love, expressing our _________
3. to make things look nice: materials for clothes or home; jewelry
4. on maps: yellow = land, blue = water
5. to trick the eye, in printing
6. a blue-ribbon pie
7. red = hot, blue = cool
8. to make blend into the surroundings (soldiers in jungle)
9. red, white and blue, for flags or emblems
10. an artistic work hung on the wall
11. flashing yellow arrow on the road, pointing the way
12. white flag = a wish to surrender

11. flashing yellow arrow on the road, pointing the way
12. white flag = a wish to surrender

A. only see the good things
B. the very best
C. be very pale from a scare, illness
D. write it down
E. be able to start something
F. be a kind person