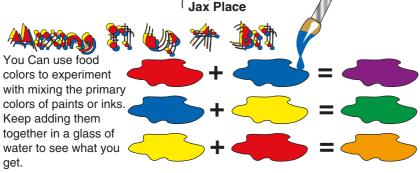


Dear Michelle,

We're usually taught that there is 1 set of primary colors. But that is not true. There are several sets of primary colors.

See, when you mix inks or paints, the primary colors are red. blue and vellow.

But when you mix light, the primary colors are red, green and blue. Really.



No matter how much red, blue and yellow you mix, you will never be able to create white or black with these primary colors.



Black and white are about light. They are not about paint or ink.

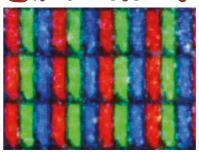
Black happens when there is no light. We say black is the absence of light. White is all colors of light mixed together.

There is such a thing as

white paint. But it does not contain red, blue or yellow. Instead, it uses a chemical that reflects all colors of light.

Paints that absorb all colors of light, and do not reflect any colors, are black.

what color is



I held a microscope up to the screen on our TV and took this picture.

Every color you can see on a TV is made from just three colors mixed in different amounts. That is what primary

colors are: the building blocks you use to make all other colors.

These are tiny bars that glow with red, blue and green light, and when they mix together, we see white.

The color on the TV in this photo is the color white.

When you're working with the primary colors of light, you make white by mixing all the primary colors together.

Black, meanwhile, is made by having *none* of the primary colors.

The easiest way to see this for yourself is to hit the pause button and look very closely on your own TV. And then back up. Sitting close to TV can't be good.

P.S. from Beakman: One reason there is so much of the foxic metal lead in our environment is that lead used to be in most white paint. Lead carbonate (white lead) paint was banned because kids chew on woodwork.



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