Plasma and LCD* technology - what's the difference?

Plasma and LCD* panels may look similar, but the flat screen and thin profile is where the similarities end.

*LCD : Liquid Crystal Display

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ONE (LCD) PIXEL Viewer Polarizing filter Green Filter Blue Filter Red Filter Liquid crystals STATED AN A STATEMENT AND A DEPARTMENT AND A Thin-film transistors Polarizing filter Backlight

Isabelle Genetay-Lycée Saint-Exupéry Blagnac

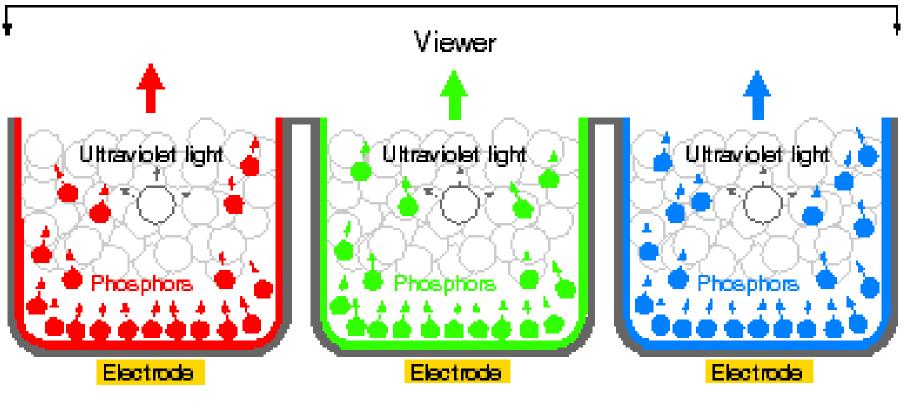
LCD screens

- The light, called a "back light", passes through a polarizing filter (a filter that aligns the light waves in a single direction).
- The transistor makes the liquid crystals to aligned or not, depending on an electrical signal.
- Once the light is passed through the liquid crystal layer, it then passes through a color filter so that each cell will then represent one of the three primary colors of light.

http://www.theprojectorpros.com/learn-s-learn-p-lcd_how_it_works.htm

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ONE PLASMA PIXEL



Gas-filled cells

Plasma screens

A pixel is made up of 3 gas filled cells, respectively coated with red, green and blue phosphor.

An electrical signal makes the gas to become ionized : it is a plasma. The ions release ultraviolet photons that interact with the phosphor material coated on the inside of the cell, and this in turn gives off visible light photons.

http://news.softpedia.com/news/How-Does-Plasma-TV-Work-49776.shtml

Present and comment on these documents. Don't forget to focus on at least one physics topic.