



Make It Solar; Science Fair Projects

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Worksheet: Wavelength of Light that Hits a Solar Panel

Color	Wavelength (nanometers nm)	Solar Cell Output (milli-amps mA)
White (Full Sun)	390 - 780	
Violet	390 - 455	
Blue	455 - 495	
Green	495 - 575	
Yellow	575 - 595	
Orange	595 - 625	
Red	625 - 780	

Which color filter causes the greatest change in the solar cell output?

Which color filter causes the smallest change in the solar cell output?

Do you think solar cells should be designed to operate well for all wavelengths or just a few?

Explain your answer.