



# MASSACHUSETTS CLEAN TECHNOLOGY AWARDS

A Program from The Foresight Project Inc

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## Middle School Clean Tech Awards:

Region IV: Northeastern MA

Samantha Fox, St. Michael's School,  
North Andover

*" Visible Light and Solar Panels"*

Samantha Fox's hobbies are soccer, volleyball, and art. Her favorite subjects are science and literature. Samantha enjoys literature because she likes reading, and enjoys science because she likes being able to make a real life connection with what she's been studying.

Samantha has a supportive family and a great dog that she really enjoys spending time with. She likes to do things like go outside and play soccer, and sometimes just sitting doing nothing.

### MY PROJECT:

The experiment that I performed was one in which 4 solar cells connected in a series were used to see which color of the visible light spectrum produces the most volts.

The way the experiment was performed was by putting light filters over the solar panels, and using a digital multi-meter to measure how many volts were coming off the solar panels. This experiment was run twice indoors and twice outdoors for comparison. After the experiment was run, the results were averaged. Under the conditions, the experiment results showed that the color yellow produces the most volts.