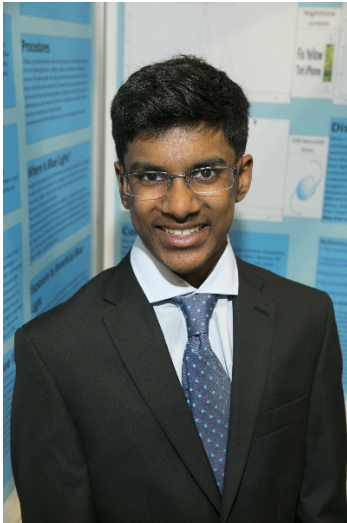


## CWSF 2017 - Regina, Saskatchewan



### Rayirth Sivakumar

#### The Effects of Blue Light Emissions on the Eye

**Challenge:** Environment

**Category:** Intermediate

**Region:** Niagara

**City:** Vineland, ON

**School:** Niagara Academy of Sports

**Abstract:** I studied about the harmful and beneficial effects of blue light rays from digital screens. A black comet spectrometer was used to measure the blue light from various digital screens. Intraocular lenses, blue blocker glasses and the nighttime screen protector was placed in front of the spectrometer to see how much harmful and beneficial blue light was being blocked.

#### Biography

My name is Rayirth Sivakumar and I am 13 years old. I attend the Niagara Academy of Tennis. I have recently just moved to Ontario for better education and more tennis. I have done a science fair project on Blue light emissions from digital screens. I got the inspiration because this is one of the world's biggest problem. I want to find out the effects on the future. I am going to continue to study medical issues and cures in the future. I am going to go to nationals to share results with everyone.