

## Independent:

- Not affiliated with any other organization
- Dedicated to science and education
- Doctoral level scientists and researchers

## Vision:

- How seeing affects learning
- Not just 20/20
- Maximal utilization of the visual brain is our goal

## Scientific Advisory Board

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## Supported by:

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# GEMSTONE FOUNDATION

*An independent, nonprofit  
research and service  
organization*

*Dedicated to understanding  
how vision impacts learning*

Gemstone Foundation is a 501(c) (3) not-for-profit Social Enterprise Corporation.

[www.gemstonefoundation.org](http://www.gemstonefoundation.org)

## How can we help you?

### Computer Vision Syndrome

- Eyes that are tired or sore
- Complaints about eyes
- Students who don't read

### Schools

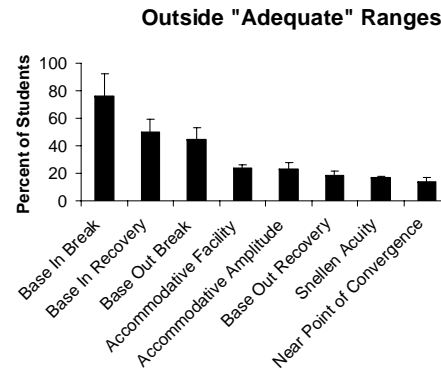
- 4<sup>th</sup> or 5<sup>th</sup> graders with sudden declines in reading performance
- Any child or adolescent with undiagnosed reading issues

### Close Work, Driving or Sports

- Knitting, sewing, drawing
- Problems tracking while driving
- Tennis, golf, other sports
- Any activity that requires good coordination between the two eyes for maximal performance

## Our Results:

1. Children who read poorly have poor visual skills.



2. We can detect poor visual skills.



3. We can improve visual skills.



## Publications:

Powers MK: Improving visual skills: A new internet application, Journal of Modern Optics, Vol. 53:1313-1323, 2006.

Grisham JD, Powers MK and Riles PG: Visual skills of poor readers in high school. Optometry, Vol. 78:542-549, 2007.

Powers MK, Grisham JD and Riles PG: Saccadic tracking skills of poor readers in high school. Optometry, Vol. 79:228-234, 2008 .

Powers MK, Grisham JD, Wurm J, and Wurm, W. Improving visual skills II: Remote assessment via internet, Optometry, in press 2009.

Morita Y and Powers MK: Visual skills of college students in Japan. Optometry and Vision Science, to be submitted.

Powers MK, Grisham JD, Riles PG, et al: Improving visual skills III: Changes in reading performance. In preparation.