



## Phernell Walker, MBA, LDO, ABOM

## Master in Ophthalmic Optics

- Master in Business Administration
- Bachelor of Science in Business
- Associate of Science in Opticianry
- Past Adjunct Professor Pacific University College of Optometry
- ABO & NCLE Certified
- Author of text-book, Pure Optics
- Joe Bruneni Award in Optics, Association of Schools Colleges of Optometry
- Beverly Meyers Achievement Award in Ophthalmic Optics
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**Cranial Nerves** 

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## **CN VII** - facial and lacrimal gland

CN II - vision

CN III - eye motility



CN IV - superior oblique eye muscle

CN VI - lateral rectus eye muscle



Traumatic Brain Injury (TBI) can result from stroke, automobile accidents, concussions, whiplash, post neurosurgical (e.g., tumor excision, aneurism repair)

80% of TBI patients suffer vision issues

We can use prism to widen a patient's field of view

1.00<sup>A</sup> diopter is equal to 0.573 degrees

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Diplopia can result in difficulty:

stereopsis

walking

Disadvantage - reduces (P.F.R.) prism fusional vergence amplitude

Diplopia

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## **Creating Prism**

- Decentration (Mechanical) optical center edged in a different location than in conjugate with the patient's pupil (180th, 090th or combination)
- Generated prism is created across the entire lens

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