An Exploration of the Eye

Zana Schnitker
Our plans for exploring the eye

Week 1 – discuss the eye, game

Week 2 – discuss eye diseases, activity model eye, game

Week 3 – eye dissection

Week 4 – compare results, game or activity
Quick Review: Anatomy of the Eye

- Sclera
- Vitreous gel
- Optic nerve
- Macula
- Fovea
- Retina
- Cornea
- Iris
- Pupil
- Lens
Position of the Eyes Within the Skull

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Muscles to Move the Eyeball

- Superior oblique
- Superior rectus
- Lateral rectus
- Medial rectus
- Inferior oblique
- Inferior rectus
Common Vision Problems

Nearsighted (Myopia) | Farsighted (Hyperopia)

Let’s take a look: http://www.mediawebtool.com/tablet/optos_vs/refractiveerrors/
Common Vision Problems

Healthy  Nearsighted  Farsighted
Eye Diseases

Cataracts

Normal
Unhealthy

Normal lens | Clouded lens

Glaucoma

Fluid doesn’t drain and pressure damages the optic nerve

Retinoblastoma

A tumor (cancer) forms on the retina

Macular Degeneration

Normal
Macula gradually deteriorates impairing central vision