The eye and vision

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Our plans for exploring the eye

Week 1 – discuss the eye, game

Week 2 – activity, model eye, game

Week 3 – eye dissection

Week 4 – compare results, game or activity
An Exploration of the Eye

Zana Schnitker
Anatomy of the Eye
The Visual System
Images are projected on the retina upside down!

Figure 27-3 The lens of the eye projects an inverted image on the retina in the same way as a camera. (Adapted from Groves and Schlesinger 1979.)
Visual processing in the brain

depth perception and size
Color Vision
Rods and Cones

black and white concentrated at edges of retina

color vision concentrated at middle of retina (fovea)
The Retina

Fig. 21.6 Retina
Ophthalmoscope View

- Macula
- Fovea
- Vein
- Artery
- Optic disk
- Cup

Zana Schnitker
Game – Who am eye?

Tag on back

Yes or no questions

Can’t ask directly “am I the ___?”
or “do I start with a ___?”

Once figured out, line up for picture in correct order