**EYEBALLS AND BRAINS**

1. Eyeballs and brains are organs. **Which organ system do they help make up**?

**2. Observe** an eyeball and **predict** the likely functions that the visible parts perform. Sketch your eyeball and note the predictions. Be as specific as possible!

**3. Observe** a brain and predict how the brain and eyes are connected.

Sketch the brain with as much detail as possible

**3. Theorize**:

How does the eyeball send visual information to the brain and vice versa?

What other organs, tissue, cells are missing, that might help with the functionality?

How do you suppose these components connect to allow the organ system to function?

Can you see how and where the eyeball might connect physically to the brain? **Describe and label on your illustration.**

**4. Research** how the eyeball and the brain work together to allow sight.

**5. Provide** a concise, illustrated and labeled explanation, that addresses the questions posed in the “Theorize” section.

Word Bank: pupil, retina, rods, cones, optic nerve, neurotransmitter.

**6. Provide** a scientific explanations the addresses how the component parts of this system work together to perform its specialized function. Set up the explanation with headings labeled **claim**, **evidence** and **reasoning**.