



2 D and 3 D Art Projects (7th and 8th Grade)

Choose One (A or B).

Students may work alone or in small groups (teacher's choice).

A) Scale Model of the Eye

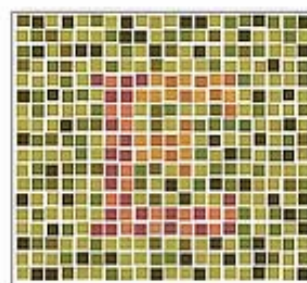
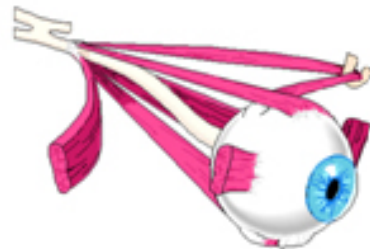
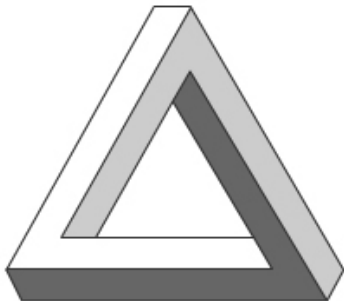
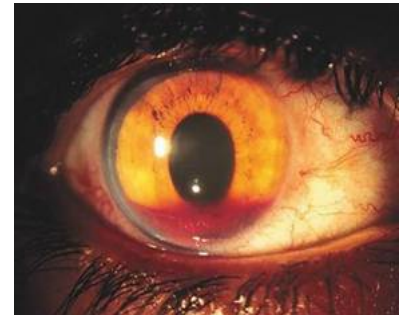
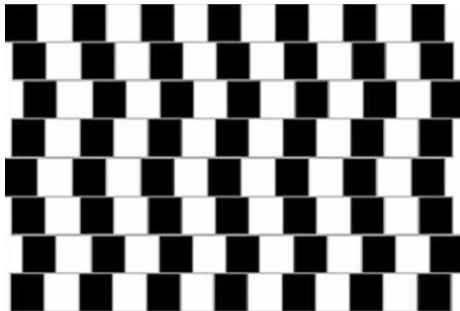
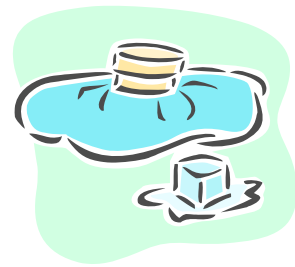
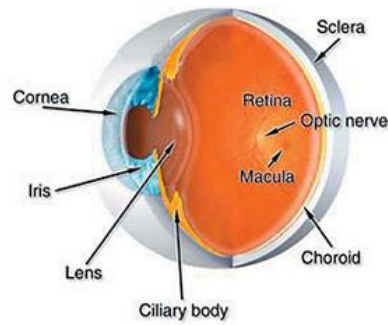
Create a scale model of the eye. Demonstrate basic anatomy of an in-tact or injured eye showing the parts of the eye using a picture from a textbook or the graphic found in the "One Pair of Eyes" Power Point Presentation (Slide #3 or #4) or on line at <http://preventblindness.org/wisabouteyes/lessons/eye/>, <http://www.preventblindness.org/vpus/glossary.pdf>, or any website on the "Student Resource Guide" on Slides #96-98 of the PowerPoint.

Draw or paint (2 D) or build (3 Dimensional) a model of the human eye using materials of your choice. Some examples: styrofoam, paper mache, flubber, or even decorate a cake! Label or be able to explain the structures.

B) Small-to-Large Grid

Create a larger scale drawing that demonstrates eye anatomy, safety equipment, or some other concept taught in "One Pair of Eyes" such as colorblind test, first aid, injury, infection, etc.

1. Use a small eye-related picture (photocopied from a book, magazine or the internet, or use examples on the next page) draw a perfect grid over it by carefully measuring $\frac{1}{4}$ " marks on a vertical lines beside the picture, and $\frac{1}{4}$ " marks on horizontal lines above and below the picture and then connecting the marks to create a grid with $\frac{1}{4}$ " x $\frac{1}{4}$ " squares.
2. Count the number of squares. For example, if your original picture is 2" x 2" you will have an 8 x 8 grid of 64 squares, each $\frac{1}{4}$ " x $\frac{1}{4}$ " in size.
3. Lightly draw a large grid with pencil of the same number of 1" squares.
Note: You will be able to fit this on a standard 8 $\frac{1}{2}$ " x 11" paper (with a very small margin) if your original small picture is 2" x 2" but if your original picture is larger, you will need a larger paper or poster board for your large grid!
4. Transfer the small picture to the large grid by drawing a larger version of each small square on your small grid to the corresponding square on your large grid. Cool!
5. Be able to explain the eye health or safety idea in your picture.



Various tests for color blindness  <http://www.nlm.nih.gov/>