

Daniela Holt Voith dhv@vma1.com
Sam Olshin sam.olshin@aosarchitects.com

Assignment 1 Graphic Analysis

The purpose of this problem is to simultaneously familiarize you with the conventions of architectural drawing and the basic elements of design.

You are to choose an object that has at least three components that either move and/or can be taken apart. These objects are to be mechanical in nature and *not* electronic. For ease of working, we suggest that each student choose one object each from the list of objects below. You will need to bring the object with you to class. Many of the objects can be purchased inexpensively from a "Dollar Store" or local hardware store. You are asked to draw the selected object in PLAN, SECTION, ELEVATION, and ISOMETRIC. Be sure to choose the most informative directions in which to take your plan and section cuts. An exploded isometric drawing can be the most descriptive with regard to assembly of components.

Additionally, we ask that you do a perspective drawing that shows the purpose and use of the object. This might be a series. Show your hand for scale.

Make the required drawings to FULL SCALE (except the umbrella which should be ½ full scale). The drawings may be done free hand, but they should be done as accurately as possible. For your presentation, your drawings must be rendered in a way that is most descriptive about the object. Think about the qualities of the object when rendering and NOT so much the color of it. The qualities that should be drawn and rendered are proportion, light (reflection and shadow), detail, materials, and texture.

Think about sheet arrangement and organization.

Recommended Objects:

1. Pen Knife
2. Coffee Grinder
3. Stapler
4. Hand Crank Drill
5. Umbrella
6. Flour Sifter
7. Can Opener
8. Wine Bottle Opener
9. Single hole punch
10. 3-hole Punch
11. Quick Grip Clamp
12. Miter Clamp
13. Vise-Grips

14. Caulking Gun
15. Egg Beater
16. Ice Cream Scoop
17. Leatherman Multi Tool
18. Shoe Tree
19. Carabiner
20. Box Cutter
21. Spray Bottle
22. Robogrip Wrench

Schedule and Requirements:

Tuesday, 9/1 First Class; Reading and first assignment assigned

Thursday, 9/3 Reading Response due by 5:00 pm

Friday, 9/4 Problem reviewed and discussed.
Introduction to drawing equipment and terminology.

Tuesday, 9/8 Have objects in hand and initial sketches. Class discussion.
Clean and setup desks

Friday, 9/11 Lecture: Plan, Section, and Elevation

Tuesday, 9/15 Final presentation. Required drawings: plan, section, isometric and elevation.

Note: Remember that drawings are to communicate your knowledge and ideas to others. You will present your drawings to the class pinned up on the tack space so that should be legible from at least 10' away. If you have several sheets of paper, think of them as a group. The sheets should be the same size and the edges straight and parallel to one another. You may want borders. You may want to use color if it helps express your ideas.