

Equipment List

Leonardo's Invention Club

Individual Equipment:

Throughout the quarter you will need:

Drawing Pencils 2B, 4B
Pencil Sharpener
Eraser
Sketch Pad - 11" X 14"
Protractor
Compass
Ruler with metric and English units
Colored Pencils (optional)
Other things we haven't thought of yet.

Pinhole Camera Project:

Scissors
Oatmeal or light tight box
Spare cardboard
Exacto Knife with extra blades

Ornithopter Project:

Exacto Knife with extra blades
2 small glass jars with air tight lids
Shoebox to store partially built ornithopter

Shared Equipment

Graph Paper

Pinhole Camera Project

Black vinyl electricians tape

Black acrylic paint

White acrylic paint

Cellulose Model Glue: Ambroid, SIGment, Duco

Small cheap paintbrush for glue

Medium cheap paintbrush for paint

#10 hand sewing needle

pencil with eraser

brass shim stock .001 inch or .001 inch

600 grit sand paper or crocus cloth

Kodak TMAX-400 Black and White 4"X5" film - 50 sheets @\$42.95

Ornithopter Project:

Cellulose Model Glue: Ambroid, SIGment, Duco

Small cheap paintbrush for glue

Acetone

Methyl-Ethyl Keytone

Small needle nose pliers

Final Project Ideas

Below is a list of final project ideas. Please don't feel that you have to pick from this list. If you have other ideas feel free to run them by us. Also it is okay to choose something that someone else in the class has chosen.

You may work by yourself or in a group. The final projects are due the last week of the quarter. They are an opportunity for you to delve deeply into a part of the course that interests you.

Perspective Machines

Analysis of Perspective in Paintings

Perspective Drawings

Pinhole Cameras - Going Further - Different cameras, Infrared film . . .

Magic Mirror Room

Build a replica of one of Leonardo's or Brunelleschi's machines

Perform an Hockney analysis of a painting

Build a Trebuchet

Complete analysis of the ornithopter

Compare a modern machine to one of Leonardo's designs

Build Arch models