Integrated Technology

Project Name — Orthographics

Design Brief: To learn and apply the basic orthographic drawing technique used in technical drawings.

Context: Graphic communications has many forms. Orthographics is one such form. They were developed as a way of communicating information about physical objects. It is part of a universal system of drawings. House plans — one well known drawing format — are a form of orthographic projection. In simple terms, orthographic drawings are views (front, side, top, and so on) of an object. An orthographic view is only one side. It takes several views to show the entire object.

Possible Solutions: Use a computer, use letraset, use a template, use a drafting machine.

Design Constraints: The following are some constraints or limitations for this project:
1. You will work individually. The project will be evaluated next period. You will have 30 minutes in class.
2. Concentrate on hand control. Endevour to make your hand do what you want it to do. Because your fingers are not used to such precise muscle movements, they have to be trained until hand control becomes effortless.
3.

Detail Design: The following are the steps to follow for developing your design:
1. Ensure that the work area is clear of hazardous materials (i.e., oil, gas, rags, wood, plastic, etc.)
2. Apply the concepts explained earlier to your orthographic drawings.
3. Complete all three lineweight sheets so that your lineweight skill will improve.
4. Review the handouts on Technical Drawing.
5. Complete each of the orthographic worksheets.

Materials: sheet of paper, tape, rulers, and pencils.

Commissioning: Were you successful in this project when you tried it out?

Evaluation: Did this project work as you expected it to?

Reflection: Did you enjoy this project? What were you most proud of? What would you do differently next time?