Introductory Graphics
ITEC 103

Orthographic Projection
Part 2

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The Glass Box Approach
Orthographic Projection

Parallel projectors perpendicular to frontal plane

Opening the Box

Horizontal and Profile planes are opened into the frontal plane.
Final Views

The standard arrangement of three orthographic views:
- Top View above the Front View
- Side View right of the Front View

Fold line between horizontal and frontal planes labeled F–P.
Fold line between frontal & profile labeled F–P.

Outlines of projection planes are omitted in final drawings.

Six Orthograhpic Views
Laying Out All Six Views

Methods of Projection between Views
How to Find the Three Primary Views

Three Primary Views

TOP VIEW

FRONT VIEW

R SIDE VIEW
Slanted Surfaces

Normal surface

Foreshortened View
not true size of plane

Profile view

Identify surfaces?

NAME: ______________
SCHOOL: ______________
DATE: ______________
DRAWING TITLE: ______________
CLASS: ______________
EXERCISE 7-3