NAME	PERIOD
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# INTRO TO ARCHITECTURAL DRAFTING FOR BEGINNING INTERIOR DESIGNERS POWERPOINT NOTES

Architectural drafting is a <u>technical</u> skill. It requires formal training and many hours of practice to learn to do it correctly.

We will learn basic drafting skills that will be used to <u>visually</u> <u>communicate</u> our design ideas with our clients.

We will not create <u>working</u> <u>drawings</u> that are meant to be used for building a structure. We will use our drawings to communicate structural design changes, space planning, <u>color</u> and <u>pattern</u> choices of flooring, furniture and fabrics.

We will learn to draw floor plans to  $\frac{1}{2}$  scale, use correct architectural symbols, space plan furniture and render (color) materials for flooring, furniture and fabrics.

### TOOLS:

Architectural drafting requires a lot of expensive, technical tools. It would be wonderful to have all the professional drafting tools but to begin we can get by with just a few simple things.

- Mechanical pencil
- Ruler
- Graph Paper
- Tracing Paper
- Eraser
- Masking tape
- Black ink pen
- Colored pencils

#### IMPORTANT BASIC FACTS:

The typical floor plan is drawn in a flat, 2-dimensional view called the "plan view" or "bird's eye" view. That means that we are looking down directly from above. We can see the length and width of an object but we cannot see how tall it is.

An <u>elevation</u> view is needed to show the height of an object.

<u>Residential</u> floor plans are drawn in  $\frac{1}{2}$  scale. That means that  $\frac{1}{2}$  of an inch =  $\frac{1}{2}$  foot. The notation is  $\frac{1}{2}$  = 1'-0". <u>Kitchens</u> and <u>baths</u> are drawn in  $\frac{1}{2}$  scale because the spaces are smaller and more accurate detail is needed.

A <u>rough drawing</u> means that the drawing is a sketch and is not "<u>drawn</u> <u>to</u> <u>scale</u>".

It is not measurable and is not in the correct proportion.

A <u>scale</u> drawing refers to a drawing that is drawn using a scale measurement, example,  $\frac{1}{2}$  = 1'-0" or  $\frac{1}{2}$ " = 1'-0". Scale drawings are <u>measurable</u> and are in correct proportion.

The **inch and feet notations** are critical to understand. The double quote mark ("), means <u>inches</u>. The single apostrophe mark (') means <u>feet</u> or <u>foot</u> Easy way to remember, the word "inches" has <u>two</u> syllables. Its notation, (") has <u>two</u> marks. The word, feet/foot has <u>one</u> syllable ('), its notation has <u>one</u> mark.

3'-3" reads three feet and three inches.

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10'- 6" reads: ten feet and six inches
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6" reads: six inches 9' reads: nine feet

For our visual communication purposes, all walls with be drawn 36 or 3 squares thick. We will be using 4 graph paper (4 squares on 4 graph paper = 1 on a ruler), that translates to a wall thickness of 4 of a square. (It's a common mistake to make wall thickness a whole square, thick.)

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square = 1 foot
square = 12 inches (same as 1 foot)
square = 6 inches (wall thickness for all our drawings)
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### When drawing floor plans, follow these steps:

**Step 1:** draw the inside lines first

**Step 2:** add wall thickness (6") to **the outside** of the inside line

Step 3: add doors and windows

FYI: Doors come in various widths.

Bathroom doors are usually 2'-3"

Interior doors are usually 2'-6"

Exterior doors are usually 36"

For consistency, we'll make all our doors 36" or 3 squares.

If you know the actual size of the door you're drawing, it's OK to draw to its true size.

FYI: Windows come in increments of 3".

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Example: 3", 6", 9", 12", 15, 18" 21", 24", 27, 30, 33, 36, etc.
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Larger glass sizes are expensive and difficult to work with. <u>Multiple</u>, smaller windows can be joined together for the same effect as one large piece of glass.

## HOMEWORK ABOUT YOUR HOME

- Make a rough sketch drawing of your bedroom.
- Freehand the floor plan layout.
- Measure or estimate each wall.
- Include measurements for windows, doors and closets.
- Write the measurements on the plan.
- It's not suppose to be perfect, messy is normal.
- If you don't have a tape measure, <u>estimate</u>.
- (Helpful tip) take a ribbon/rope/string and measure off the kitchen counter depth. Kitchen countertops are typically 24" deep. Use the 24" length as a measurement tool to estimate the size of the room.
- Optional/take pictures with your phone to help remember details.

Bring the rough sketch back to class tomorrow so you can convert it to a scale drawing.

### REVIEW

#### Important terms to know:

**%" scale:** one quarter of an inch on a ruler equals one foot when drawing floor plans or building models.

**Plan view** or **bird's eye view:** the view looking down directly from above. Shows the length and width but not the height of an object.

**Elevation view:** looking straight on at the object. An elevation gives a flat, two-dimensional view. Elevations show the height of object, and either it's width or length, depending on the view, but not both. A plan view and an elevation view need to be used together to get a full view of the floor plan. Elevations are "to scale" and are measurable.

**Rough drawing:** a hand drawn, rough sketch of a floor plan. It is not "to scale" and is not in correct proportion. It is not measurable.

**Scale drawing:** a plan that is created using an architectural scale measurement. Usually  $\frac{1}{2}$ " =1' for residential floor plans. Scale drawings are measurable.

**6" reads:** 6 inches

6' reads: 6 feet

Wall thickness measurement = 6" or ½ of a square

# When drawing floor plans, follow these steps:

**Step 1:** draw the inside lines first

**Step 2:** add wall thickness (6") to **the outside** of the inside line

Step 3: add doors and windows

Bathroom doors are usually 2'-3"

**Interior doors** are usually 2'-6"

Exterior doors are usually 3'.

How wide will we make our doors? 36" or 3 squares

Windows come in increments of: 3".