### Perspective: Creating Depth Foreground, Middle Ground, Background

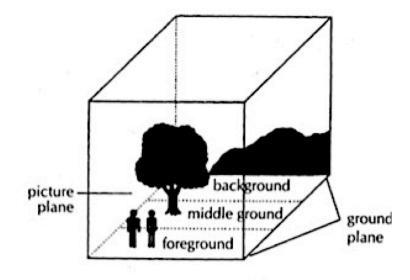
We can show depth in artwork by using foreground, middle ground and background.

In the foreground (at the bottom of the page) things are very large.

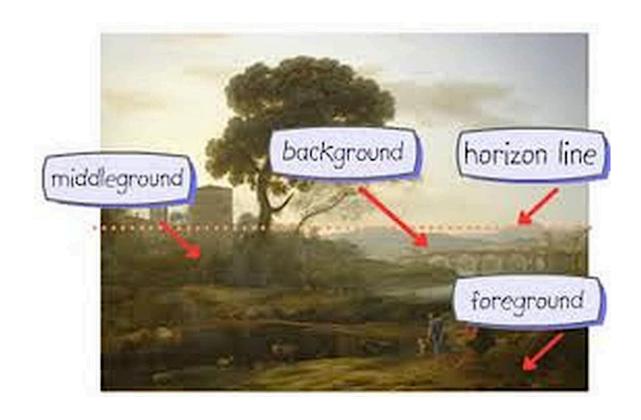
In the middle ground, things are a little smaller.

In the background, things ate much smaller, and are usually found near the top of the picture.

We must also have a "horizon line!" This separates what is on the ground from the sky. Without the horizon line, items would look like they are floating in space!



Schematic drawing of picture space





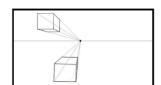


# One Point Perspective Cubes

This exercise explains how to draw a cube in one point perspective and takes you through the task of drawing three simple blocks that are positioned above, below and in line with the horizon line.

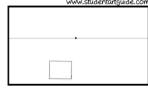
#### KEY POINTS:

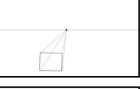
- Objects above the horizon line are drawn as if you are looking up at them (you see the bottom of the object)
- Objects below the horizon line are drawn as if you are looking down on them (you see the top of the object)
- Objects that are in line with the horizon line are drawn as if they are at eye level (you see neither the top or the bottom of the object)

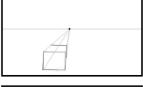


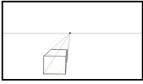


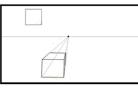


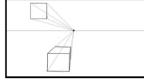


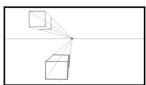


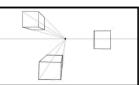


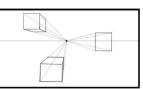


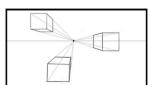










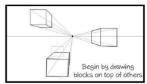


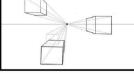
# 1 Point Perspective: Complex Forms

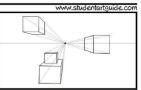
This worksheet helps you to move from drawing simple blocks to creating more complex forms, by stacking, cutting holes and adding unusual angles.

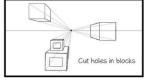
#### TASK

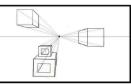
- Begin by drawing a series of blocks in one point perspective, above and below the vanishing point
- Draw other blocks sitting on top or beside these blocks
- Draw rectangular holes cutting through some of the blocks.
   Remember you may need to draw construction lines to find where the back edge of the hole will be
- Slice off different edges of the blocks on unusual angles
- In the gaps around the blocks, add in more complicated forms, such as letters and triangular shaped blocks (extension activity)

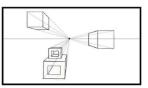


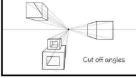


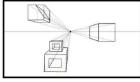


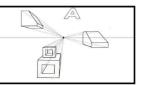


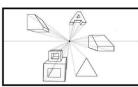


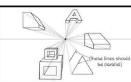


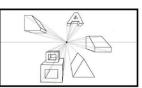


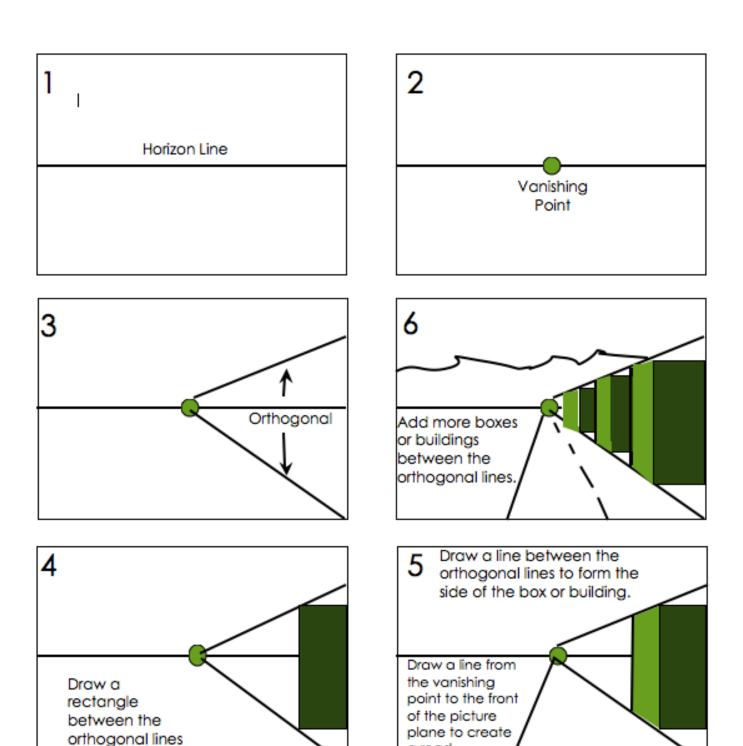








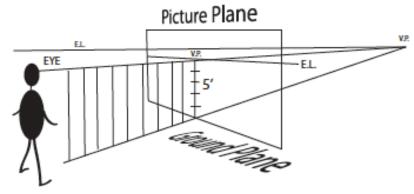


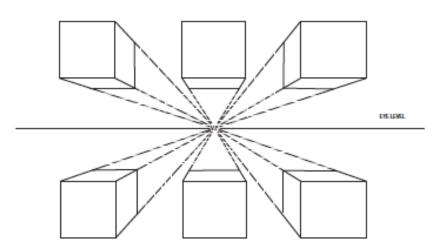


# Simple One Point Perspective

a road.

## 1 Point Persepective





Eye Level (EL)- the line representing your eye's distance from the ground. As your eyes move up or down the eye level changes. Also called Horizon Line.

Picture Plane (PP)- The picture plane is the actual surface of a drawing or painting.

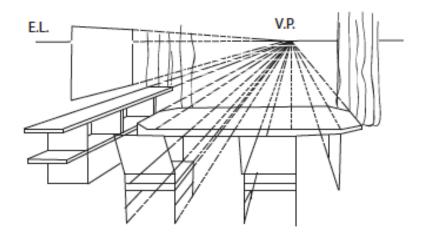
Plane- Any flat surface such as a wall, floor, or table top is a plane.

Vanishing Point (VP)- The vanishing point is a point at which parallel lines receding into space appear to meet.

Center Line of Vision (CLV) - represented by a vertical line that is the equivalent to the the center of your eyes. If an object is directly in front of you it is on the center line of vision (CLV)

**Ground Line (GL)**- represents the ground you are standing on.

**Station Point (SP)-** The point at which the viewer is standing.



#### Basic rules of perspective:

All parallel lines will converge to the same vanishing point.

Objects will appear to get smaller as they get closer to the Eye Level (Horizon Line)

In both 1 and 2 point perspective, the (VP) vanishing points are always on the eye level Organize an invented 1 point perspective drawing in the following order:

- 1. Establish an eye level
- 2, Establish a Center Line of Vision

center line of vision

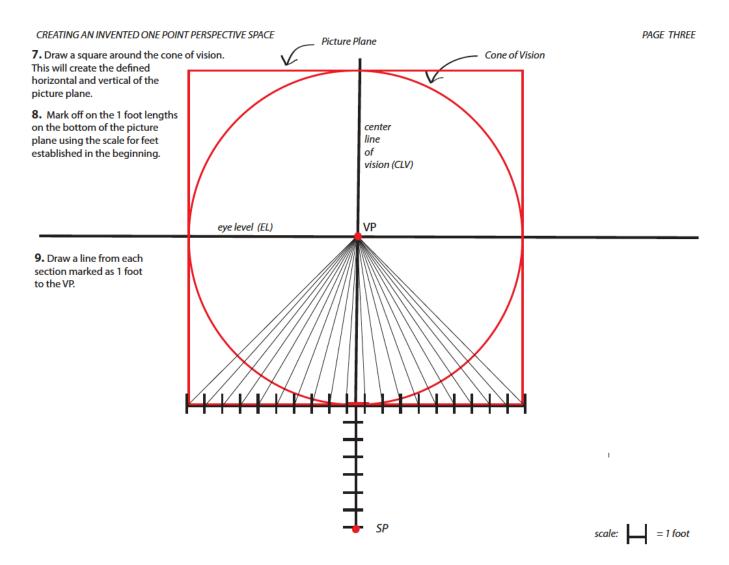
VP

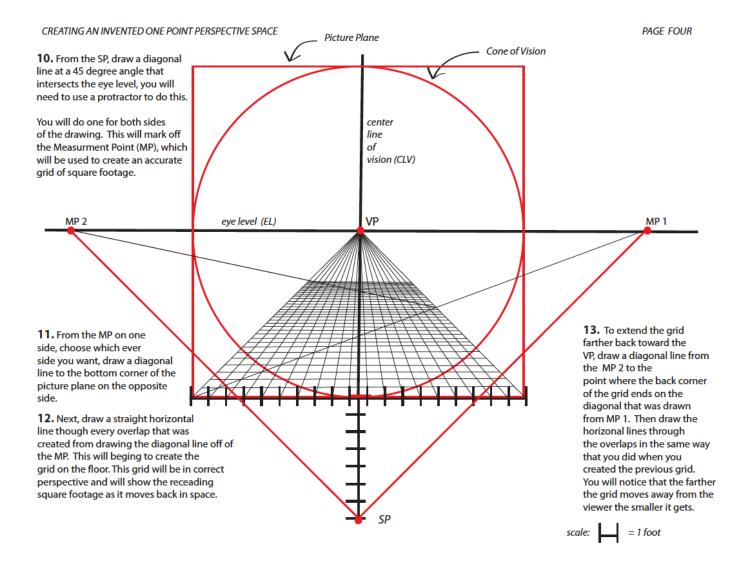
Remember that the vanishing point (VP) in one point perspective is where the eye level (EL) and (CLV) center line of vision cross.

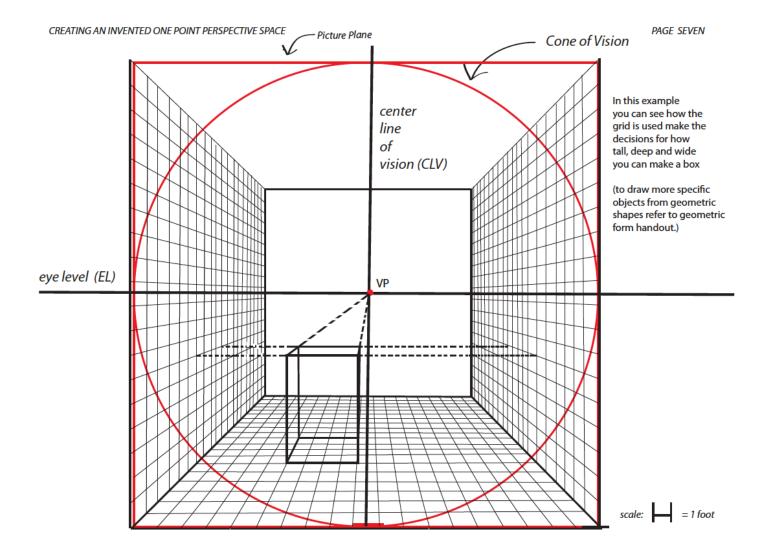
eye level

3. Establish what the scale of your scene will be. (This means to think about relationship of the drawing to the actual three dimensional world. In this example the two dimensional unit of measurment below will be the theoretical equivalent of 1 foot.)

= 1 foo







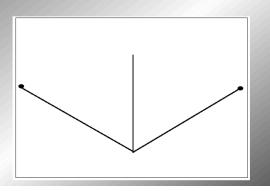
## Two Point Perspective

First, add your vanishing points to the paper. Try to make both vanishing points at equal heights. You can put the vanishing points as high or low as you wish when drawing in perspective, but for this project it works well to put them near the center of the paper.

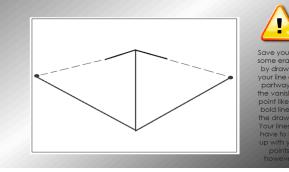


Next, draw a vertical line near the center of the paper. Make sure your line is nice and straight. This line will become the corner building of your city block!

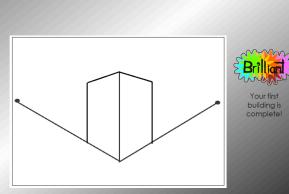
Using your ruler, connect the bottom of your vertical line to each vanishing point. Make sure it touches!



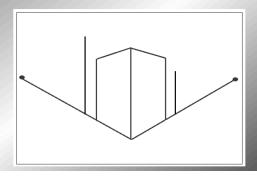
Then, line up the top of the line with each vanishing point. Draw your diagonal lines partway towards each vanishing point. This will create the sides of your building.



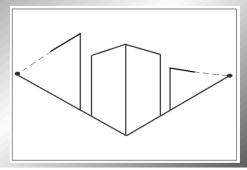
Draw a vertical line to connect the diagonal lines. This completes the sides of your building and your corner is all set!



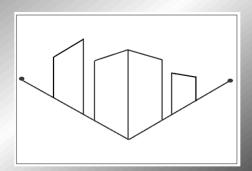
Next, create additional buildings and build your city.
Leaving a little space next to your first building, draw
vertical lines up. They can be taller, shorter, or equal
height to your first building.



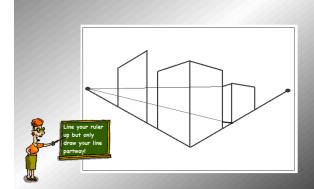
Connect the top of those vertical lines to the nearest vanishing point. You do not have to draw the line all the way, but it must line up with that point!



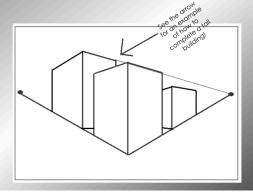
Just like before, draw vertical lines down to create the sides of your building.



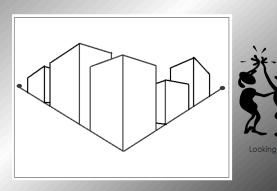
Create the sides of your new buildings by lining up the top and bottom corners to the opposite vanishing point.



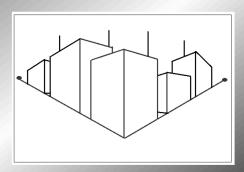
If your building is tall, draw your line towards the vanishing point partway and then draw a vertical line down to complete your building.



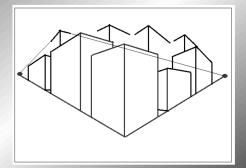
Keep adding buildings all the way to each vanishing point for a city block effect.



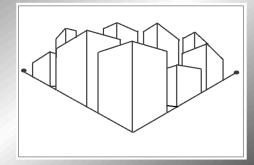
Add in additional buildings in the background to build up your city. Start like always by drawing vertical lines up from existing buildings.



Connect the top of each vertical line towards each vanishing point. You do not have to draw the line the whole way, only partway like the bold lines above.

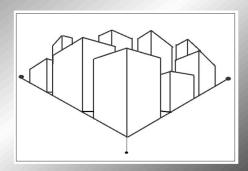


Draw vertical lines down from each side to create the sides of your buildings. Your city buildings are complete!

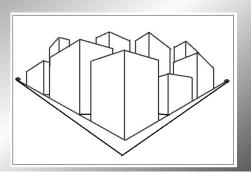




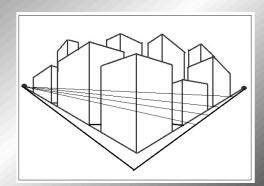
Add a sidewalk or street to create a realistic city look.
Start by marking a dot below the first vertical line you drew. This will create the corner of your sidewalk.



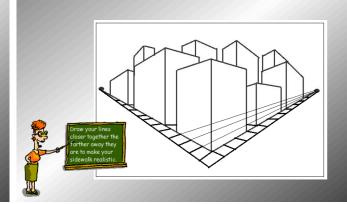
Connect the dot to each vanishing point. The base of your sidewalk is created.



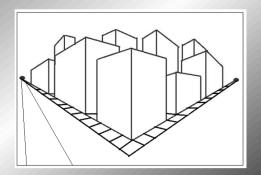
Draw the division lines for the sidewalk by drawing those lines to the opposite vanishing point like shown below.



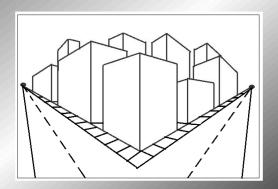
Continue to connect each division line to the opposite vanishing point to finish your sidewalk.



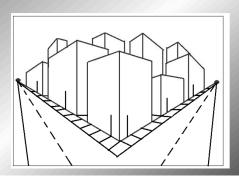
Your city is looking great! Next, add in a street by drawing lines from the vanishing point to each side.
Your street can be as wide as you would like.



Complete your street by lining up each side with its appropriate vanishing point.

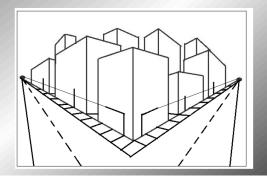


Add details to buildings by creating doors, windows, signs, and more for your buildings. Start your doors by drawing vertical lines up from the base of your buildings.

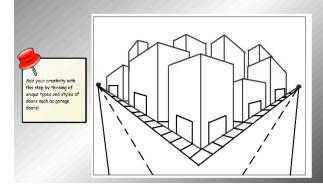




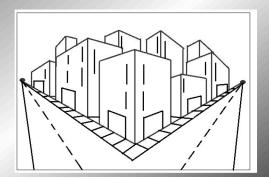
Door and window tip: when creating doors or windows, draw your vertical line on the side of the building that is farther from the vanishing Connect the top of your vertical lines to the vanishing point it is closest to. Again, you do not have to draw your lines all the way but they must line up with your point!



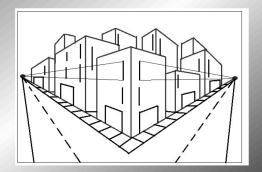
Finish your doors with vertical lines down. You can also add a vertical line in the middle to divide the doors into two, making double doors.

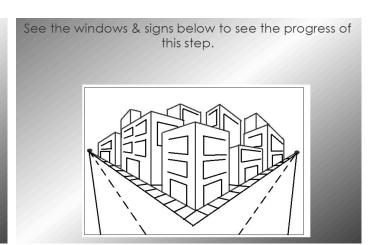


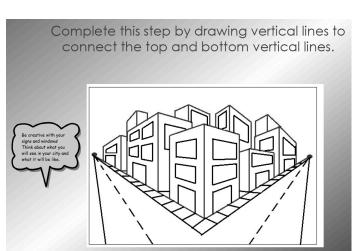
Add in windows, posters, or signs the same way by starting with drawing vertical lines.

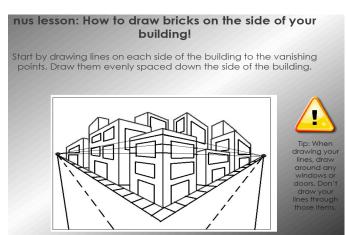


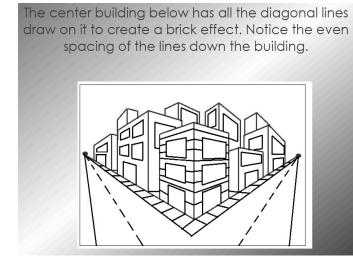
Draw lines to the right or left vanishing point from the top and bottom of each vertical line.

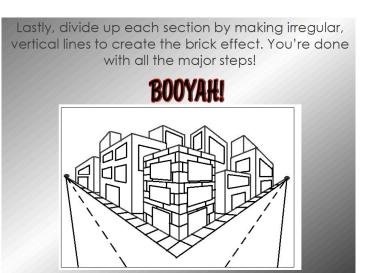












There's nothing left to do but add details and personalize your city. Be creative and make it unique!

