Hi!

Thank you for taking time to learn about my camera obscura (which is Latin for dark room). The best way to look through my camera obscura is to go outside because there is so much light!

When you look through this camera Obscura, you will notice how the projected image is upside down. That is because light travels in a straight line.

{you might want to have a pen/pencil or diagram to demonstrate}

So since we have a small hole at the bottom of the can (also known as aperture), as the light travels from the top, it continues in the straight path following a straight line all the way to the bottom and visa versa. That is why you see an inverted image. One of the things we learned in class was that when the aperture is small, the image projected will be dim, but sharp. When we make the aperture big, it will project bright, but it will be blurry. This is due to a process known as destructive interference. This is because so many light rays are coming in all at once. They bump into each other and cause a blurry image.