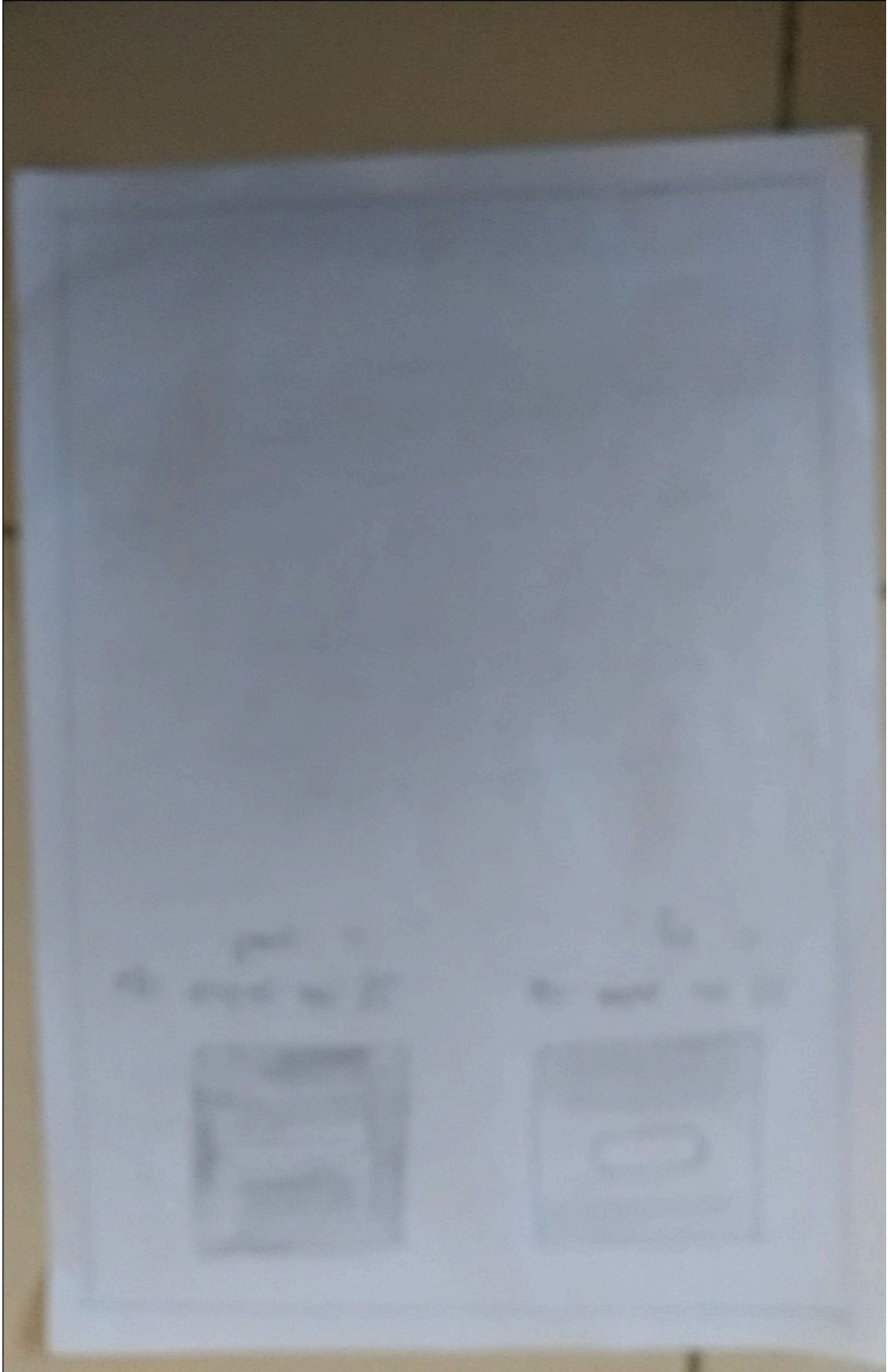


3. Now explore what happens If the pinhole size is smaller and larger respectively?

Ans: We see in pinhole camera with smaller pinhole size seems to be lesser Illumination.

We see in pinhole camera with larger pinhole size seems to be Illumination.

We see light in pinhole camera with larger pinhole size seems to be light with small Image. The light have Illumination.

We see light in pinhole camera with smaller pinhole size seems to be dark with long Image. The light have lesser Illumination.

C) If the Illumination (brightness) of the object changes or you look towards another object with lesser Illumination (brightness)

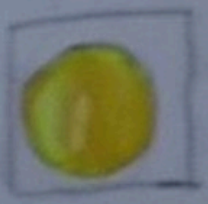
Ans) If we see Illumination of the object the object is seen to be clear and bright

when we see Illumination of the object the object is seen to be blue and dark

B)

Sun

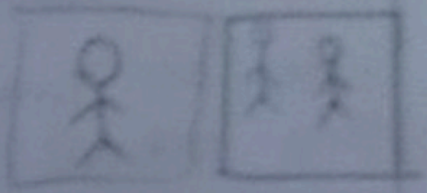
we see in pinhole camera without moving



Sun

we see in pinhole camera with moving

A)



we do not see

we see

C)

Sun

Clothes in sun light

2 What happens to the Image.

A) If without changing the pinhole camera setting, you move further away from the object? compare your Image in terms of what view is covered now and before, size of Image.

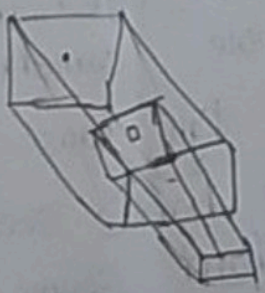
Ans: When we cannot changing the pinhole camera settings, the Image is seen to be big and some part only visible. And we move some futher away from the object. The object is seen to be small and covering total part is visible.

Ex: If any two persons standing opposite to the pinhole camera. we do not move we see in pinhole camera only one person will be visible. when we move some further away from the two persons we see in pinhole camera two persons are visible.

B If you Increase the distance between the pinhole and the screen.

Ans When we Increase the distance between the pinhole and the screen the Image is seen to be in big size (zoom).

When we decrease the distance between the pinhole and the screen the Image is seen to be in small size.



Pinhole camera

when we see in pinhole camera trees and sky the picture look like inverted image.

1) What has changed from object to the Image? can you describle the changes and think of reasons?

Ans In pinhole camera the light was reflected. In some pinhole camera we see in pinhole camera with our eye. The eye will be reflected we see in pinhole camera the eye will be visible. In mirror the light was reflected. we see in mirror our right hand seems to be left hand and our left hand seems to be right hand. In some pinhole camera we see in pinhole camera the Image will be reversed the up part look like down part and down part look like up part.

In pinhole camera the translucent screen is passing light partially the light is some reflected and some do not reflected that's why the Image is seen in Inverted Image. ~~Inverted~~

While a pinhole camera seems to be giving us upside down Images, a mirror seems to be turing right hand into left hand and the left into right hand. we will learn more about this in higher classes.

Science

Project

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