

Pinhole Image [Activity]

Both a prism and a lens deviate light because their faces are not parallel (only at the center of a lens are both faces parallel to each other). As a result, light passing through the center of a lens undergoes the least deviation. If a pinhole is placed at the center of the pupil of your eye, the undeviated light forms an image in focus no matter where the object is located. Pinhole vision is remarkably clear. Not magnified, but clear.

Answers to the Questions

- 1, 2. Yes. Just as the image in a pinhole camera is clear near and far, likewise for this activity.
3. The page is dimmer simply because less light energy gets through the pinhole.