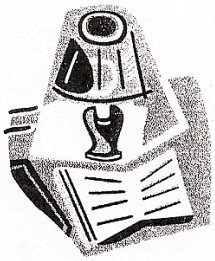
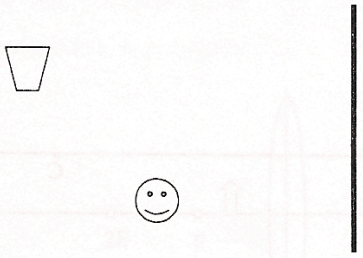
A Little Light Reading

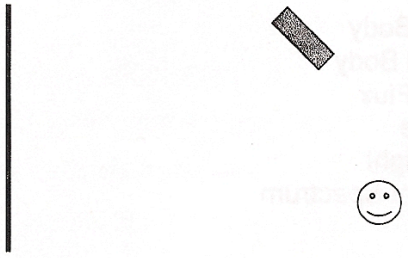
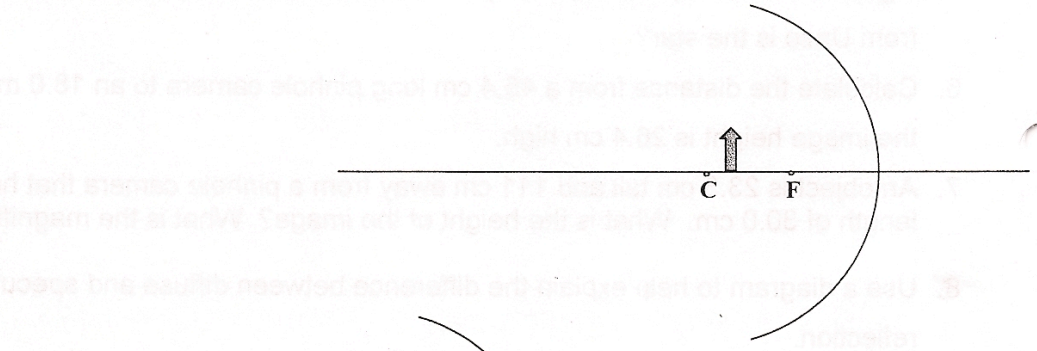
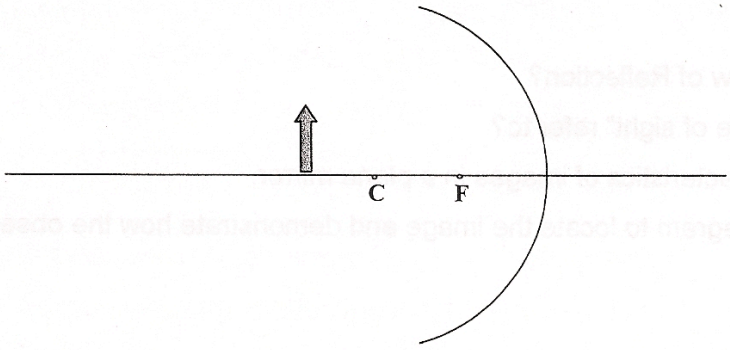
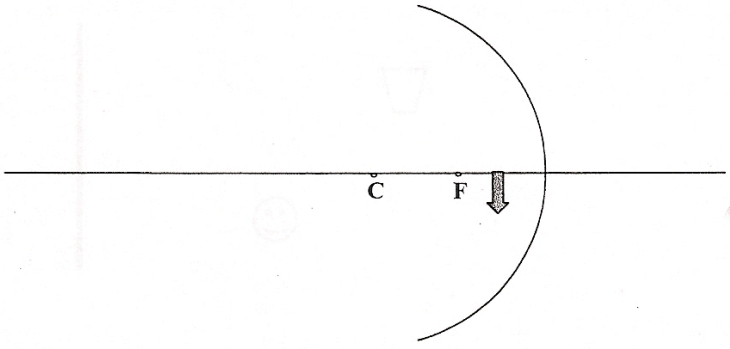


1. Facts about light – review the 13 points from Day One
2. Define the following:
    a. Luminous Body
    b. Illuminated Body
    c. Luminous Flux
    d. Illuminance
    e. Polarized light
    f. Visible Light Spectrum
    g. Black

3. An object is illuminated from a light source 3.45 m away. The light source produces 3575 lm. What is the illumination of the object?
4. An orange light has a wavelength of 475 nm. What is its frequency?
5. Light from a nearby star reaches planet Unzo in 17.46 seconds. How far away from Unzo is the star?
6. Calculate the distance from a 45.4 cm long pinhole camera to an 18.0 m tree if the image height is 26.4 cm high.
7. An object is 23.3 cm tall and 111 cm away from a pinhole camera that has a length of 30.0 cm. What is the height of the image? What is the magnification?
8. Use a diagram to help explain the difference between diffuse and specular reflection.
9. What is the Law of Reflection?
10. What does "line of sight" refer to?
11. List the 5 characteristics of images in a plane mirror.
12. Draw a ray diagram to locate the image and demonstrate how the observers see the images:



A Little Light Reading



13. Draw a ray diagram to locate the image. Remember to draw all THREE rays!
    Also list 4 image characteristics for each: