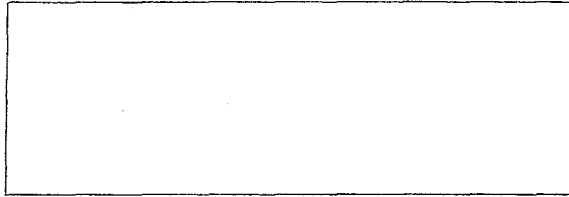


Observations

Figure 2



**Letter "d" as it appears
on microscope slide**

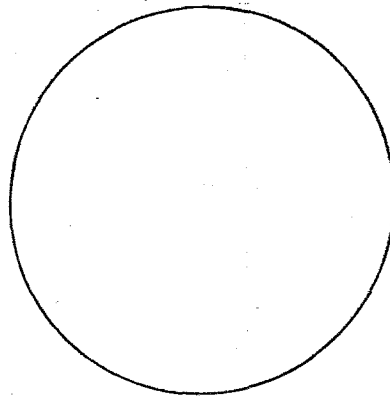


Plate 1 Low-power objective

Magnification _____

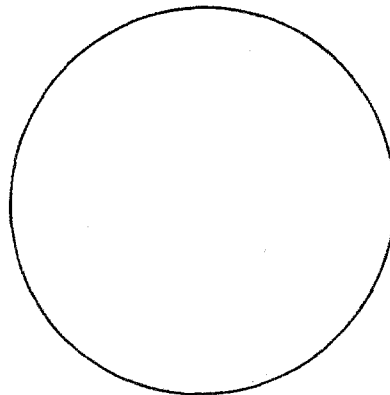


Plate 2 High-power objective

Magnification _____

Analysis and Conclusions

1. Briefly describe how to make a wet-mount slide.

2. How does the letter "d" as seen through the microscope differ from the way a "d" normally appears? _____

3. When you move the slide to the left, in what direction does the letter "d" appear to move? _____

4. When you move the slide to the right, in what direction does the letter "d" appear to move? _____

5. How does the ink that was used to print the letter differ in appearance when you see it with the unaided eye from the way it appears under the microscope?

Critical Thinking and Application

1. Explain why a specimen to be viewed under the microscope must be thin.

2. Why must you be careful when you are focusing the high-power objective lens? What precautions should you take? _____

3. Suppose you were observing an organism through the microscope and noticed that it moved toward the top of the slide and then it moved to the right. What does this tell you about the actual movement of the organism? _____

Going Further

Obtain some common objects, such as a piece of cotton, a piece of nylon, a small piece of a color photograph from a magazine, and so on. View each of the objects under the low-power and high-power objective lenses of the microscope. Make a plate drawing for each object. Describe the appearance of the objects when viewed under the microscope. How did each object differ from the way you see it with the unaided eye?