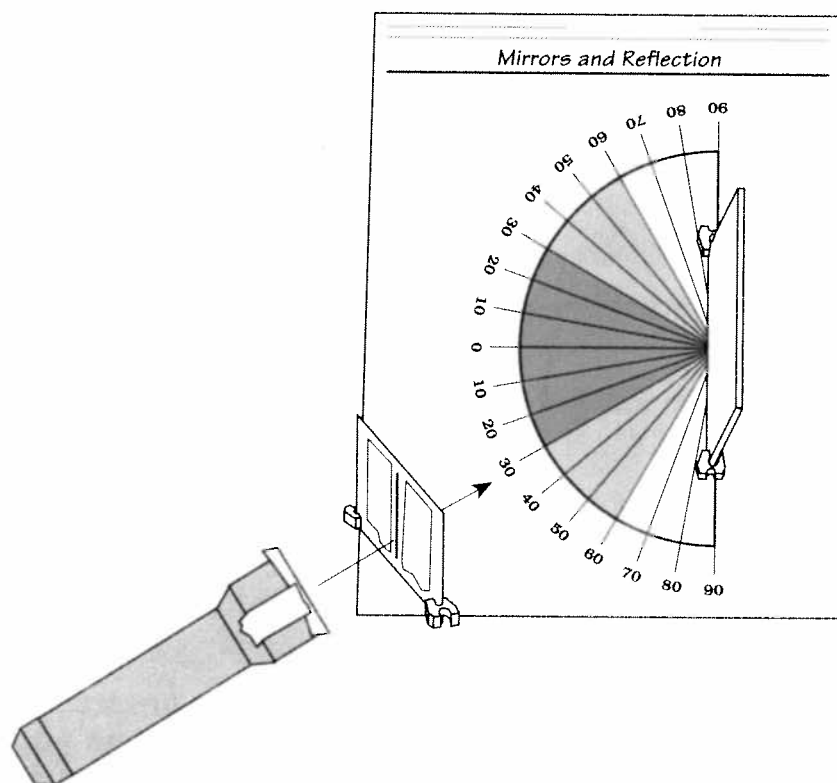


Mirrors and Reflection

1. Set up your experiment as shown in the diagram below. Use the plastic holders to hold the mirror and slit card perpendicular to your work surface. Align the rear edge mirror with the side of the protractor between the two 90° marks.
2. Shine the flashlight through the slit card. For your first measurement, adjust the position of the flashlight and slit card so that the beam of light follows the path of the 30° line on the protractor. The beam should hit the mirror right at the black spot in the middle of the protractor.
3. In the diagram, draw a line with an arrow at one end to indicate the path of the reflected beam of light. Then record the size of the angle (in degrees) in the table below. Repeat the experiment five or six more times, using different angles of incoming light each time.



Angle of Incoming Light Rays	30°						
Angle of Reflected Light Rays							