Curved mirrors and multiple reflections *Dynamics first* Equipment

List

- corrugated cardboard ~50 cm × 50 cm
- mirror supports
- plane mirrors
- protractor
- stick pins
- straight edge
- white board or large sheet of paper with markers
- semi-cylindrical mirrors (see Comments)
- ~5 cm × 7 cm
- life-size top-view diagram of semi-cylindrical mirror (See "CVM Handout.pdf")

Special Instructions

Semi-cylindrical mirrors can be made by taping mylar along the curved side of a semi-cylindrical plastic dish (often used for refraction of light experiments).

Students use stick pins to locate images by parallax, so it is convenient to have semi-circular pieces of cardboard inserted snugly into the bottom of each dish.

Students can align the dish with the handout provided. See the handout, which is based on a dish ~12.5 cm in diameter.