

Ray diagrams *Dynamics first* Equipment

List

- handouts
- paper towels
- white board or large sheet of paper with markers

Special Instructions

- 6 square transparent plastic containers
- 6 600-ml beakers
- 1 bucket of water
- 12 stick pins
- 12 nails, ~10 cm in length
- 6 small balls of modeling clay, to stand the nails upright
- 6 long-filament bulbs & sockets

Handouts (See Handouts):

- 12 enlargements of top-view diagram of pin in square container of water
- 12 enlargements of top-view diagram of pencil in circular beaker of water

paper towels (for clean-up)