

Electric fields and flux *Dynamics first* Equipment

List

- fur or cloth (for charging rods)
- graph paper
- plastic rods (approx. ~ 0.5 " diameter by 10" long)
- protractor
- white board or large sheet of paper with markers
- small pieces of paper such as 3" x 5" index cards
- pith ball [small Styrofoam balls (~ 1 cm diameter) covered with aluminum foil and hung from fine insulating (e.g. polyester) thread]

Special Instructions

Additional equipment for final section:

- 1 plywood block for each group (~ 5 " square by $3/4$ " thick), with 100 large nails through it in ten rows of ten nails.
- 6 wire loops formed into squares that comfortably fit over 49 nails