

5. Carefully remove tape C from the lab table. Tape it firmly down on top of tape D. Carefully remove tapes C and D together from the lab table. Quickly separate them, being careful not to tangle the tapes. Bring the tapes close together—but not touching—and observe how they affect one another. Record your observations in your lab notebook. Place tape D back on the lab table, and place tape C down on top of tape D.
6. Vigorously rub tape A with a wool pad again. Grasp tape A by the tab and carefully remove it from the table. Remove C and D together from the table. Quickly pull C and D apart. Bring C close to tape A, but do not let them touch. Observe how they affect each other. Move C away, and bring D close to tape A. Record your observations in your lab notebook. Throw the four tapes away.
7. Tape a meterstick flat on the surface of the table so that the end of the meterstick extends over the edge of the table. Take another 20 cm long piece of tape, fold a tab on one end, and tape it down on the table. Vigorously rub the tape with a wool pad. Grasp the tab, and carefully remove the tape. Attach the tape to the end of the meterstick so that the tape freely hangs straight down.
8. Rub a polystyrene rod with the wool pad. Bring the rod near the end of the tape that is hanging down, and observe the effect on the tape. Record your observations in your lab notebook. Throw away the tape, and remove the meterstick from the tabletop.
9. Tie the suspension support securely to a string, and suspend the string from the support stand and clamp. Attach a polystyrene rod to the support, and rub the rod with the wool pad. Rub a second polystyrene rod with wool, and bring this rod near one end of the suspended rod. Observe what happens, and record your observations in your lab notebook.
10. Rub the PVC rod with the wool pad, and bring the rod near one end of the suspended polystyrene rod, as you see in **Figure 1**. Observe what happens, and record your observations.
11. Suspend a glass rod on the support, and rub the rod with silk. Rub the PVC rod with the wool pad, and bring the rod near one end of the glass rod. Observe what happens, and record your observations.
12. Suspend a PVC rod on the support, and rub the rod with the wool pad. Rub another PVC rod with wool, and bring the rod near one end of the suspended PVC rod. Observe what happens, and record your observations.

**Figure 1**

**Step 9:** Suspend the rod securely so that it hangs freely.

**Step 10:** Charge the rod by rubbing it vigorously with the wool pad. Bring the charged rod near one end of the suspended rod.

