

Step 4: Charging by Induction

B.11 Charge the PVC pipe and then bring it close to your hair. What happens? [It works best if you have longer hair and are very patient.]

Charging by Induction

1. The PVC pipe is negatively charged. It's full of electrons.
2. The PVC pipe goes near your hair. It *repels* the electrons inside your hair. They run away.
3. Your hair is now positively charged. (by induction!)
4. The PVC pipe and your hair are attracted.

B.12

Draw what happens when the negatively charged PVC pipe is brought near your neutrally charged hair. Label what happens to the electrons inside the hair, and what the hair does afterwards?