

Interactive Notes-Electricity

Materials per group (4 students):

Demo 1	1-balloon- already blown up 1-ping pong ball 4-note sheets
Demo 2	1-fluorescent light bulb
Demo 3	2- density blocks (item #WW46065M00 at sciencekit.com)- 1 metal and 1 other 1-bowl or beaker- to put ice cubes in 2-ice cubes 1-towel
Demo 4	3-gator clip wires (item #WW47889M00 at sciencekit.com) 1- 9-volt battery 1-mini light bulb- cut from strand of Christmas lights 1-250 mL beaker with distilled water 1-50 mL beaker with about 10 mL of table salt 1-plastic spoon 2- strips of aluminum foil

Beforehand: get ice; get refill stations ready (cleaner, salt, note sheets), close blinds, try demos for yourself

Procedure:

Demo 1- Tell student #1 to put the balloon next to the ping pong ball sitting on the table and observe what happens (nothing). Now have them rub the balloon on their hair and then bring that charged spot up close to a ping pong ball, and observe the ball move towards the balloon!

Demo 2- Turn off all lights. Have student #2 charge the balloon up again with hair and then touch that charged spot to the fluorescent tube (anywhere on it, not just the ends) for an unexpected result- it lights up!

Demo 3- Have student #3 put a piece of ice on each density block and watch what happens...

Demo 4- Have student #4 hook up the wires, light, and 9-volt battery through the water as shown on the slide. DO NOT ATTEMPT TO RUN CURRENT DIRECTLY FROM AN OUTLET! After hooking it up, observe that the light is still not lit. Pour in the salt and stir with the spoon. The light will slowly come on

Clean up- spend the last 5 minutes cleaning up/getting ready for the next class. Have all-purpose cleaner and refills on note sheets & salt ready.

Click [here](#) for more about Interactive Notes, like getting ready, presenting, and materials management.