SIMPLE GENERATOR CONSTRUCTION

PARTS:

4 - 1x2x5cm ceramic magnet

1 - #30 Magnet wire 200ft

1 - Miniature Lamp, 1.5V 25mA

1 - Cardboard strip, 8cm x 30.4cm

1 - Large nail, 8cm long or more

Misc. - Knife or sandpaper to strip the wires

Misc. - tape to hold wire down

Optional: hand drill or electric drill to spin it (hand drill is best)

First make the hollow-ended box. Score the cardboard strip like so:

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SIDE VIEW OF THE

NAIL AND MAGNETS VIEW FROM THE END

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| TWIST THE WIRES TOGETHER  Make sure that each end of the generator's wires are totally cleared of red plastic coating. If there is a bit of plastic left, it can act as an insulator which turns off your light bulb circuit.Twist the scraped end of each generator wire securely around the silver tip of each wire from the small light bulb. (If necessary, use a knife to strip more plastic from the ends of the light bulb wires.) One generator wire goes to one light bulb wire, the other generator wire goes to the other light bulb wire, and the two twisted wire connections should not touch together. In the twisted wires, metal must touch metal with no plastic in between. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \  |\ | \  | \ | \  | \\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\  \ | |  \\ | |  \\\====================|  \\\========---=========/\_\_\_  |\\========(\\)========/ \  -----+-\==========(\_)=======/ \  / | ==================== |  | | | | |  | \ | | |  | \|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_| |  \ /  \ twist /  \ {} twist {} /  \ {} {} /  \\_\_\_\_/\\_\_\_\_\_\_ \_\_\_\_\_\_\_/\\_\_/  \\_/  ( )  ( ) tiny  (\_) light bulb |