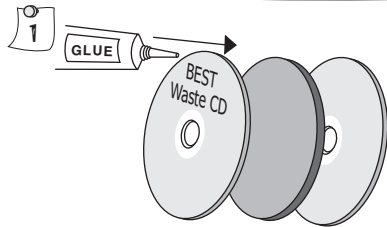
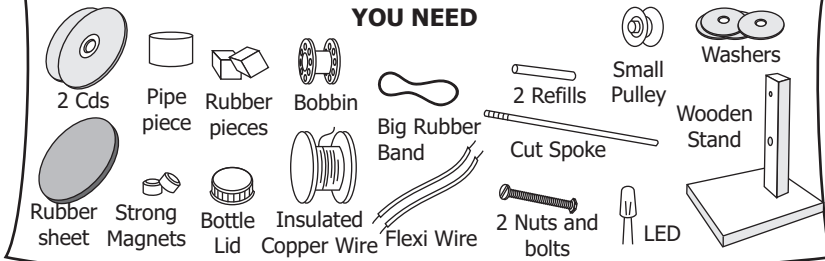
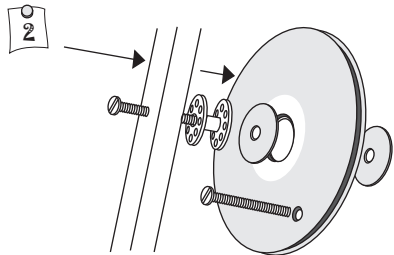


CRANK GENERATOR

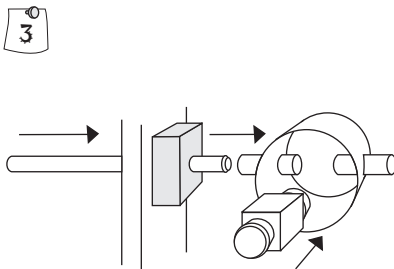
YOU NEED



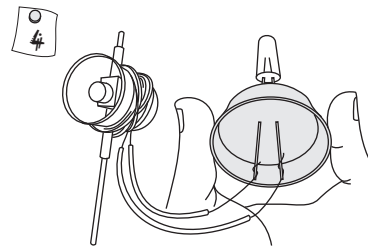
1 Sandwich a smaller diameter rubber between two old CDs to make a big pulley.



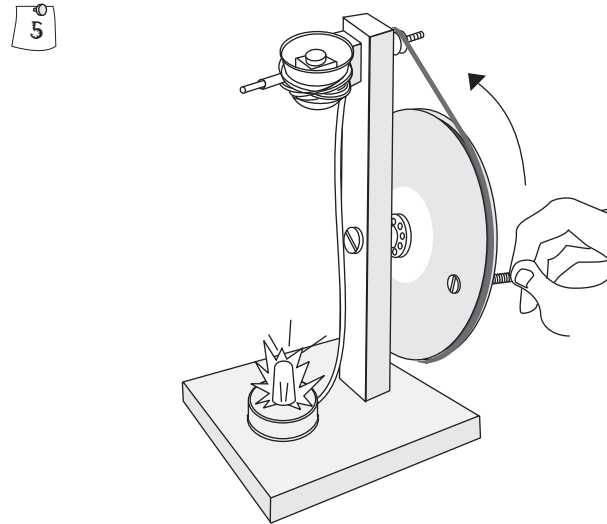
2 In the lower hole of the Wooden Stand place a long screw. Then put a machine bobbin, washer, CD pulley, washer and a nut. Fix a long screw handle to the CD pulley.



3 On the top hole on the Wooden Stand fix the generator pipe with two stiff straw bearings, cycle spoke axle piercing through the rubber cube. Attach two strong Neodymium magnets to the rubber cube.



4 Wind 500 turns of thin insulated Copper rewinding wire on the pipe piece. Attach the ends of the coil to a LED fixed to a bottle lid.



5 Fix a small plastic pulley on the threaded end of the cycle spoke. Join the small and big pulley with a large rubber band. On turning the handle the magnets will rotate. This spinning magnetic field will generate a current in the coil which will light up the LED!