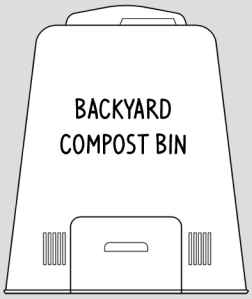
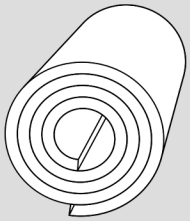
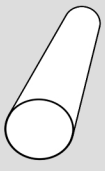
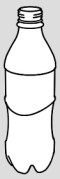
PROPOSAL FOR A BACKYARD PROPAGATING COMPOSTER

MATERIALS:



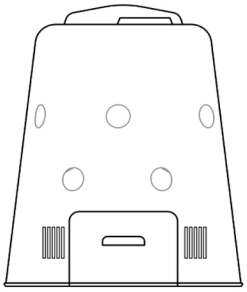

FOAM


PVC PIPE


PLASTIC BOTTLES

SOIL THERMOMETER

STEP 1:

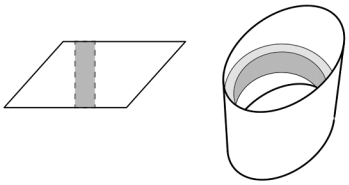


USING HOLE SAW, CUT HOLES IN THE COMPOST BIN, WITH THE SAME DIAMETER AS THE PVC PIPE.

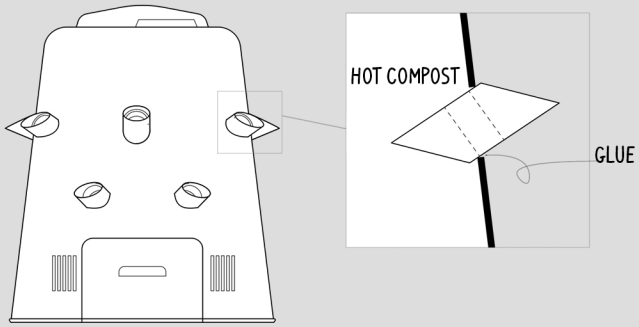
STEP 2: CUT THE PVC PIPE INTO EQUAL SEGMENTS AT AN ANGLE.

STEP 3: CUT THE FOAM INTO 2CM WIDE STRIPS WITH LENGTH EQUAL TO THE CIRCUMFERENCE OF THE PVC PIPE.

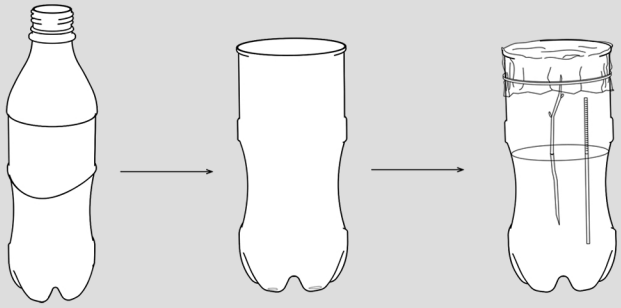
STEP 4: WRAP THE FOAM STRIPS INSIDE THE PVC PIPE AND GLUE AS SHOWN.

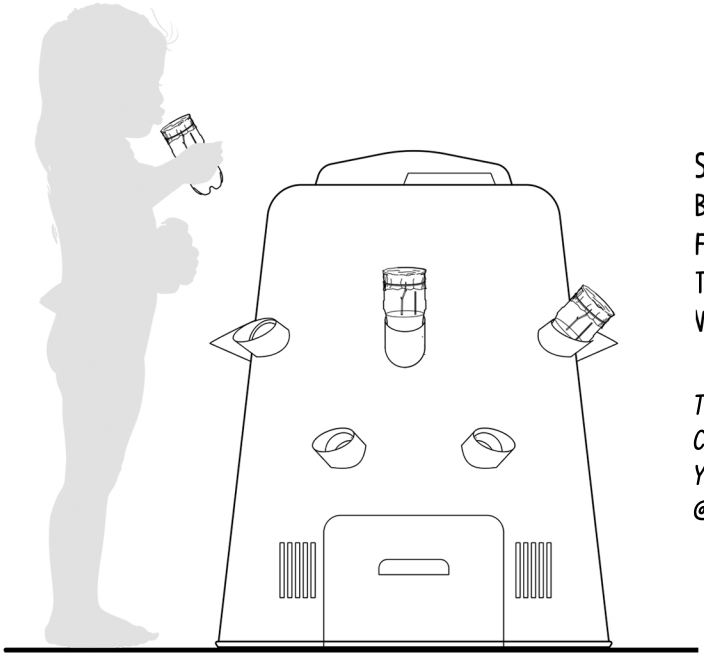


STEP 5: INSERT THE PIPE UNIT ONTO THE COMPOST BIN AND GLUE THEM IN PLACE, THEN FILL THE BIN WITH MATERIALS FOR HOT COMPOST.



STEP 6: CUT THE TOP HALF OF THE BOTTLE OFF AND DRILL DRAINAGE HOLES AT THE BOTTOM. FILL THE BOTTLE WITH SOILLESS MEDIUM, INSERT CUTTINGS. CLOSE THE UNIT WITH PLASTIC FILM AND A RUBBER BAND





STEP 7: INSERT THE BOTTLE PROPAGATION UNIT INTO THE COMPOST BIN UNIT. THE FOAM INSIDE EACH PVC PIPE SHOULD SECURE THE BOTTLE FIRMLY. MONITOR THE SOIL TEMPERATURE IN EACH BOTTLE AND ADJUST THE DEPTH OF INSERTION AS NEEDED. ADD NEW COMPOST MATERIAL WHEN THE TEMPERATURE DROPS.

THIS DEVICE IS CURRENTLY IN TESTING TO DETERMINE ITS OPTIMAL OPERATING CONDITIONS. THESE INSTRUCTIONS ARE PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. YOU CAN FOLLOW OUR PROGRESS IN DEVELOPING IT ON INSTAGRAM @PROPAGATIONFORTHEPEOPLE

DESIGN AND DRAWINGS BY JINGZHOU SUN