How to make panpipes.

Materials:
Hose pipe (at least 88cm long, with 12mm internal bore)
Plastic tape (about 3cm wide and preferably brightly coloured)
Ball of nylon string (quite thin and brightly coloured)
Margarine tub lid (or similar)
2 thin strips of wood, each 17cm long

Equipment:
sharp scissors, pen, ruler.

Instructions:

1. Cutting the pipes.
Measure, mark and cut the hose pipe into the following lengths:

15.5cm 13.7cm 12.1cm 11.3cm 10.1cm 8.8cm 7.6cm 7.1cm

2. Blocking the pipe ends.
From the margarine lid, cut out a small round plastic disc, big enough to cover the base of the hose pipe (use the end of the hose pipe to draw around).

Cut a piece of tape about 3cm long.

Stick the plastic disc in the centre of the piece of tape, and place over the end of a piece of hose pipe, folding the tape around the pipe.

Cut another piece of tape about 7cm long, and neatly wrap it around the lower part of the pipe.

Repeat the above steps for each piece of hose pipe.

3. Assembling the panpipes.
Arrange the pieces of pipe in order of length.

Take the 2 strips of wood and a ball of string.

Firmly tie one end of the string to one piece of wood, leaving a string end about 10cm long.

Place the top of the longest piece of pipe between the strips of wood, leaving about 2cm of pipe above the wood.

Tie the pipe and wood together securely.

Tie each piece of pipe in turn to the wood, ending with the shortest piece.

Wind the string fairly tightly back around the pipe and wood. Knot the string ends together.

4. Playing the panpipes.
Now try your panpipes. They should give an approximate C major scale, the notes being low C, D, E, F, G, B and high C.