

Instrument Creation Station

Pentatonic Pipe Marimba or Pan Flute

“MARIMBA” MATERIALS:

10 foot length of 2” pipe
Hacksaw or pipe cutter

Cut pipe into **PRECISE** lengths: (**try as best you can to have the cut be square** – use a miter box)

While one could work out the actual measurements of any pitch using the Fournier theorem – here is a quick fix version:

Decide whether you want

a B-flat instrument

1	B-flat:	27 ¾ inches]
2	C 4	24 5/8 inches
3	D4	21 5/8 inches
4	F 4	17 13/16 inches
5	G4	15 7/8 inches

OR

a C instrument:

1	C 4	24 5/8 inches
2	D4	21 5/8 inches
3	E 4	19 inches (may need some tuning)
4	G4	15 7/8 inches
5	A4	c. 14 inches (<i>you'll need to tune this one</i>)
1	C5	12 5/16 inches

Sand off the rough edges of pipes and clean (*use steel wool*) and decorate surface of the pipes.

Tape over one end - duct tape can work – try to stretch the tape tightly over entire opening – use 2 pieces if needed.

It can be fun to have 5 colours of duct tape. You can paint and decorate the pipes – maybe with individual colours!

Join the five pipes together using duct tape or double-sided carpet tape. Arrange the 5-pitch series as you wish – maybe low to high or in a 3 and 2 combination. **A bit a glue between pipes can help secure them in one place.** Let the glue really set before moving the instrument. Reinforce with duct tape.

Play with fingers or a mallet.

PANPIPES: Using ½ inch Schedule 40 PVC Sprinkler pipe

Make the following lengths;

1	C	6 1/16 inches
2	D	5 3/8 inches
3	E	4 ¾ inches
5	G	3 15/16 inches
6	A	3 7/16 inches

Place a penny over one end of each pipe and cover penny with a 2” X 2 “inch square piece of duct tape.

Tape the pipes together – blow across tops to create sound.

THERE ARE LOTS OF MELODIES USING ONLY THE 5-note or pentatonic scale”

Here is Shortnin’ Bread:

1 6 5 6 1 6 5 6 1 6 5 6 3 2 1