

Design and Technology lesson

18.1.21

Task: Design and make a musical instrument

This week you will make your own **wind** instrument using rubbish!



What is a wind instrument?



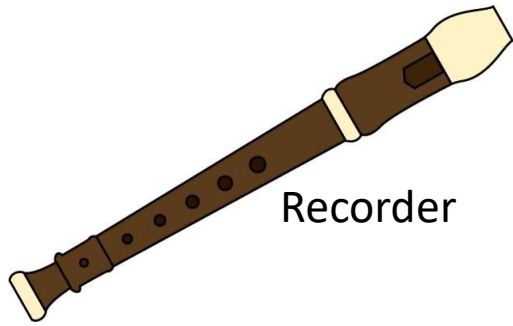
What is a wind instrument?



Answer:

A musical instrument where sound is produced by the vibration of air, often by the player blowing into the instrument.

Example wind instruments



Recorder



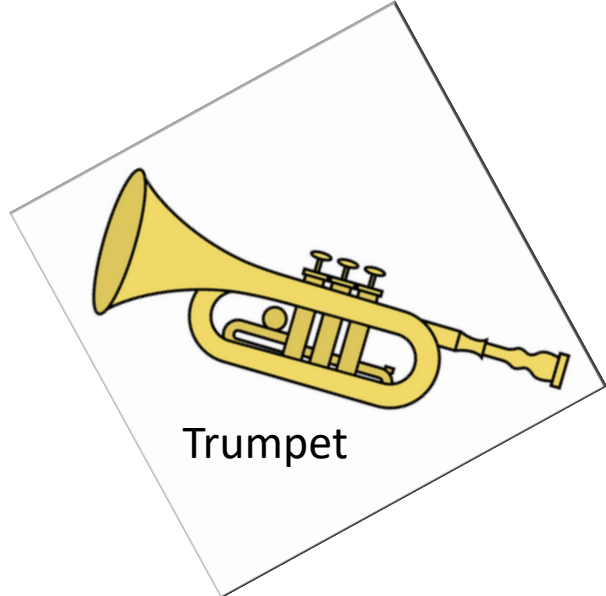
Saxophone



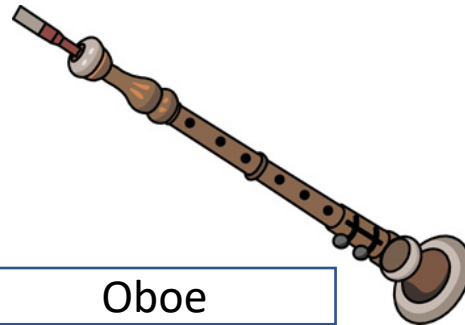
Bag pipes



Pan Pipes



Trumpet



Oboe



Harmonica

Can you think of any other kinds of wind instruments?

You can use any household junk

- Old CD disks
- String
- Milk bottle tops
- Dried rice
- Dried lentils
- Straws
- Balloons
- Paper plates
- Jar lids
- Lolly pop sticks
- Grease proof paper

Bottle tops
Plastic spoons
Empty plastic bottles
Elastic bands
Cardboard tubes
Empty coffee tins
Empty cardboard boxes
Paper cups



Here are some ideas to think about:

(You can copy one of these or make up your own)



CRAFT STICK
Harmonicas
www.makeit-loveit.com



Straw Pan Flute Craft
craftulate.com

Idea: Make a Kitchen Roll Tube Kazoo

What you'll need:

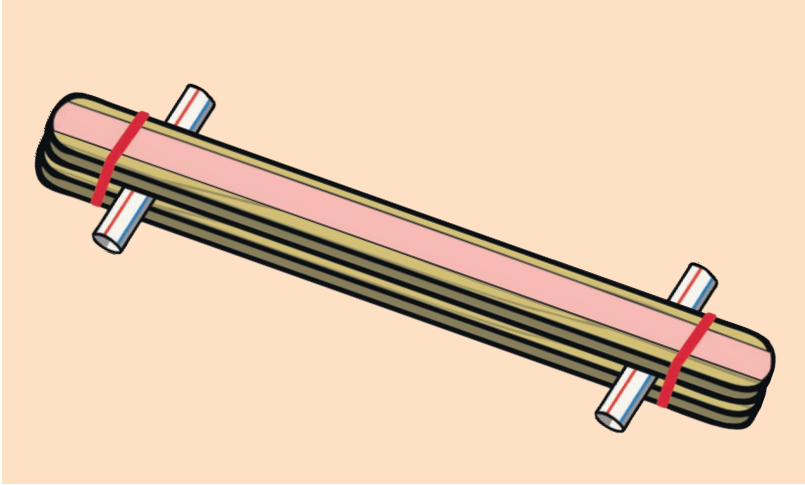
- Toilet paper roll
- Markers, crayons, stickers, etc.
- Wax paper
- Rubber band
- Scissors
- Rubber band
- Pencil



• How to make your kazoo craft

1. Let your child decorate the toilet paper roll using crayons or stickers.
2. Cut a piece of wax paper so that it will fit over one end of the toilet paper roll. Use a rubber band to hold it in place.
3. Use a pencil to poke a few holes in the wax paper.
4. Blow into the non-wax paper end of the tube.

Idea: Lolly Pop Stick Harmonica



You will need:

two icy pole sticks

plastic straw

two small rubber bands

one large, thick rubber band

scissors

Instructions

1. Cut two pieces of straw around 4cm long.
2. Stretch a large rubber band along the length of one icy pole stick.
3. At one end of the icy pole stick, place one piece of straw under the rubber band.
4. Place the other icy pole stick on top and hold it in place by wrapping the small rubber band around the end.
5. At the other end of the ice cream stick, place the second piece of straw on top of the thick rubber band, sandwiched between the icy pole sticks.
6. Hold the other end of the icy pole sticks together with a small rubber band.
7. Put the harmonica between your lips and blow.

Changes

- Move the straws closer together to get different sounds.
- Use bigger, smaller or thicker icy pole sticks and rubber bands.
- Decorate your harmonica using stickers or markers.
- Use toothpicks instead of straws.
- Use a long strip of paper or muesli bar wrapper to replace the thick rubber band.



Plan ahead!



What sort of instrument will it be?

Why have you chosen this instrument?

How will it work?

What materials or junk items and tools will I need?

Will you create this on your own? If not, who will you get to help you?

Draw a labelled diagram below to show how you **plan** to make your instrument

Label your diagram and say what it will be made of, what parts it has and how it is put together.

I can evaluate my own work.

This is what my instrument looked like when I finished it:

Does your instrument work? _____

Did you have any problems making it? _____

If you made it again, what changes would you make to your design? _____

How many marks would you give your instrument out of 10?

10

Why have you given your instrument this score? _____

Now take a photo of your finished instrument
and post it on school Dojo

I can't wait to see what you create!

