

Record Sheet 15–A

Name: _____

Date: _____

Design Sheet

1. Write the name of the instrument or device you are planning to construct.

2. What does this invention do?

3. What materials will you need to make this instrument or device?

4. How does this instrument or device demonstrate what you have learned about sound?

5. Draw and label a sketch of your invention.

Record Sheet 15-B

Name: _____

Date: _____

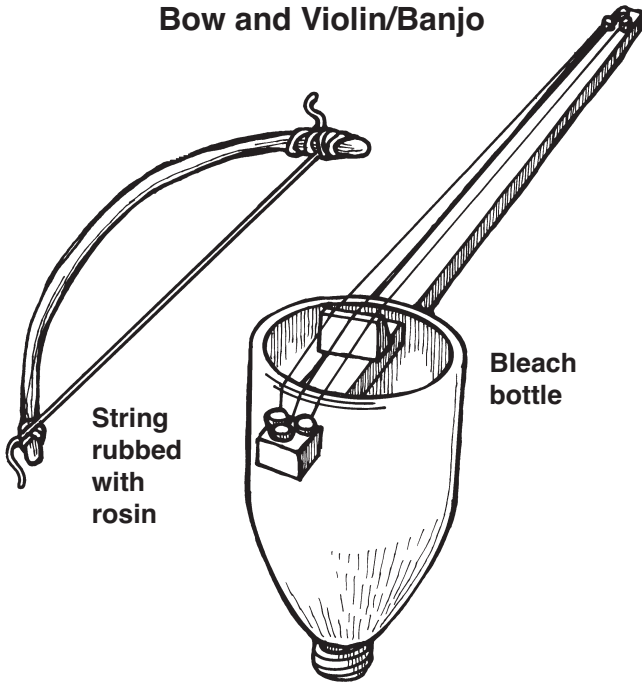
Presentation Planning Sheet

1. Write down the ideas you want to present.

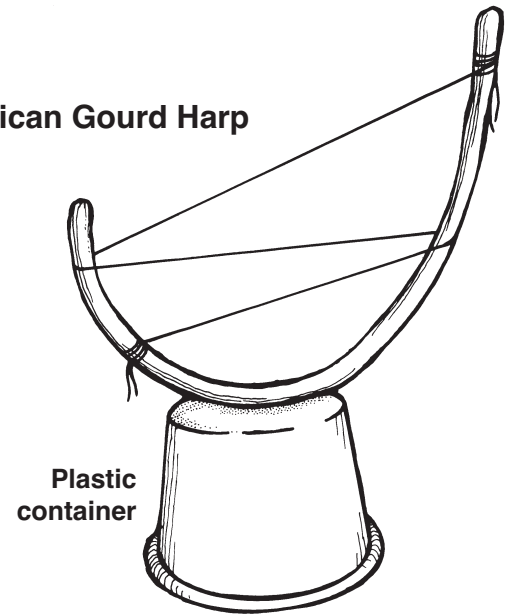
2. Outline how you will present these ideas.

Ideas for Stringed Instruments

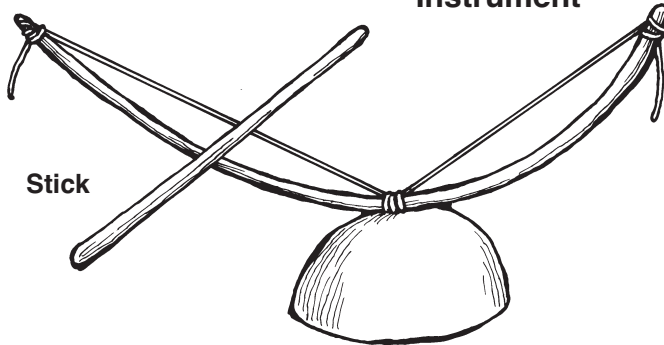
Bow and Violin/Banjo



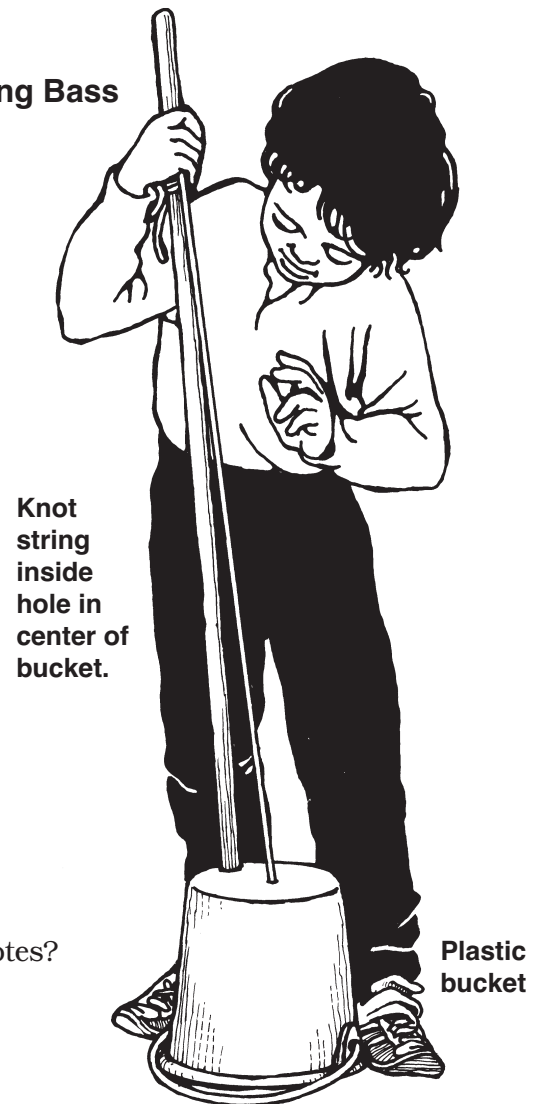
African Gourd Harp



African Gourd-Bow Instrument



String Bass

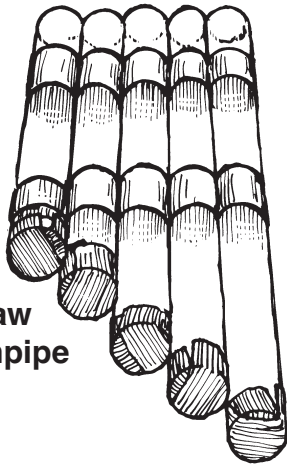


Ideas to Explore

- How can you make a stringed instrument sound louder?
- How do different materials for the sound box change the instrument's sound?
- What materials produce the most pleasing sound?
- What kinds of strings work best for low notes? For high notes?
- How do bridges made of different materials or different shapes affect the sound?

Ideas for Wind Instruments

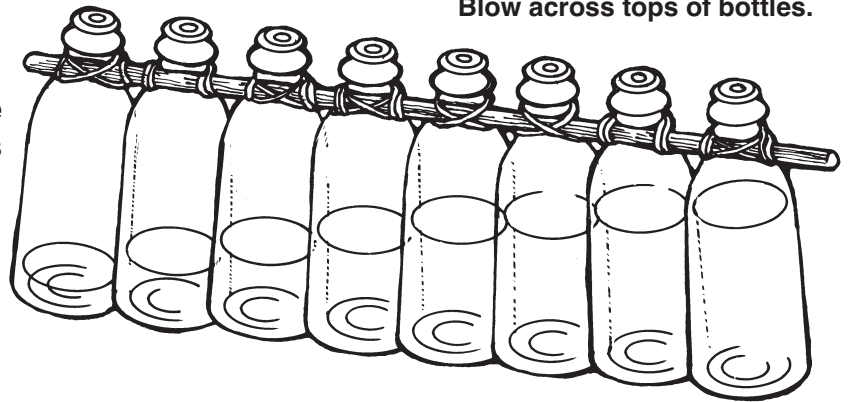
Blow across top of straws.



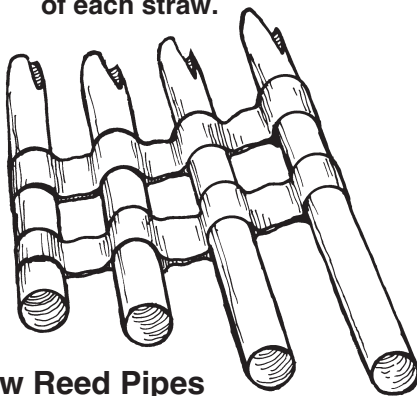
Straw Panpipe

Soda Bottle Pipes

Blow across tops of bottles.



Blow into end of each straw.



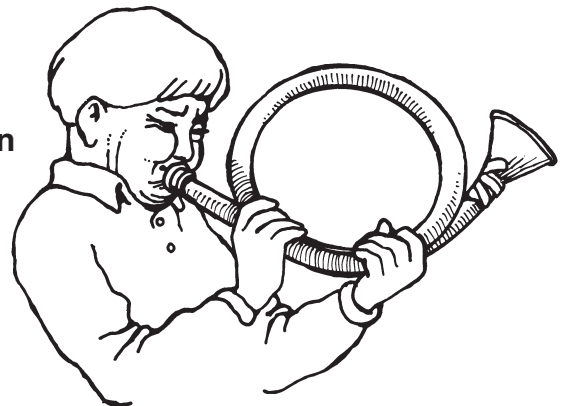
Straw Reed Pipes



Jug Band

Hose Horn

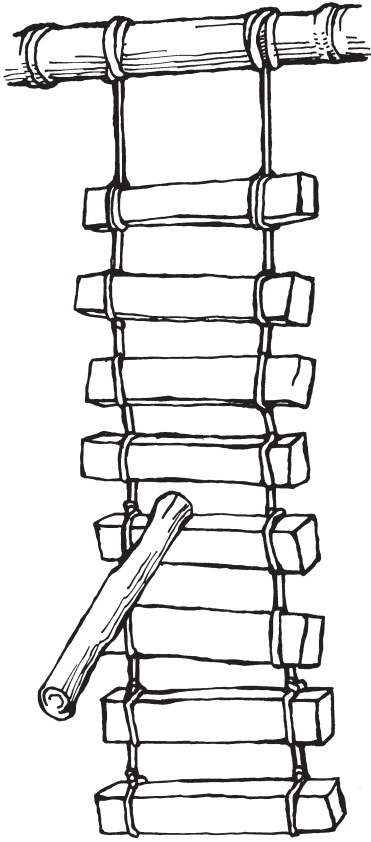
Purse lips and blow like a trumpet.



Ideas to Explore

- How do you make a low pitch? How could you make it even lower?
- What happens to the pitch of a horn if you change the position of your lips?
- How can you make the instrument sound louder?
- How can you show what part of the instrument is vibrating to produce sounds?
- How many different materials could you use to make your instrument? How do you think the different materials would affect its sound?

Ideas for Chimes

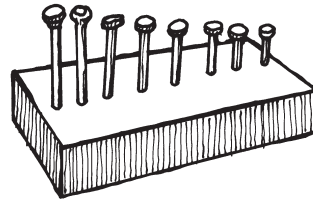


Wooden Xylophone

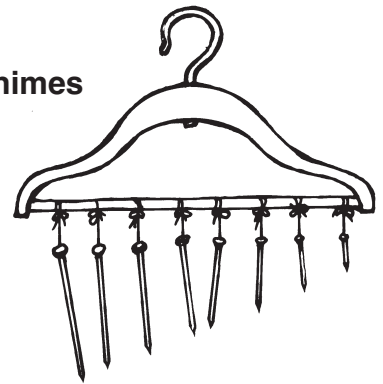


Water Bells

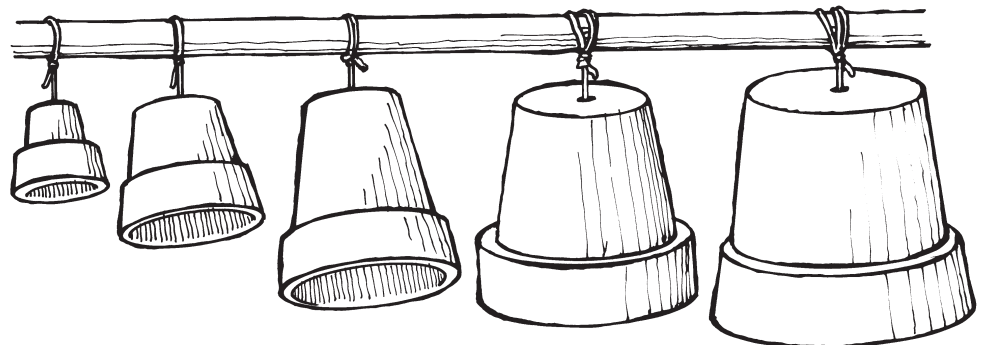
Nails-in-Block Chimes



Nail Chimes



Flowerpot Bells



Ideas to Explore

- Which of the chimes or bells in the set produces the highest pitch and why?
- What would you change to make the pitch even higher?
- Which material makes the most pleasing sound?