

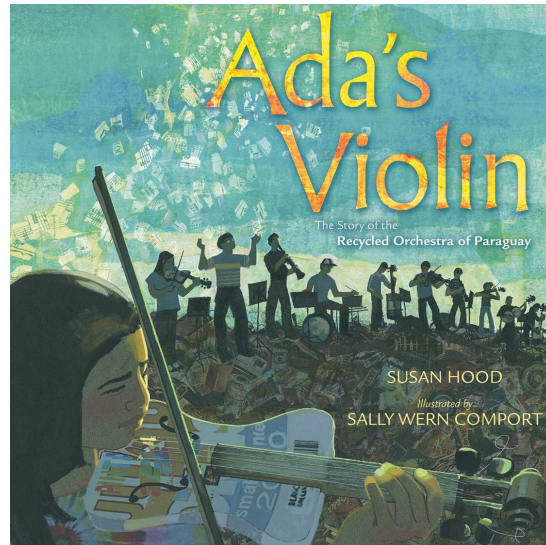
# LIVE

from the

# OPERA HOUSE

it's

# Storytime



## ADA'S VIOLIN, BY SUSAN HOOD



### **Maker's Challenge: Make your own musical instrument.**



Plan: What do you want your instrument to sound like? There are four instrument families in an orchestra: woodwind, brass, string, and percussion.

- Woodwinds (like a flute, whistle, or saxophone) and brass instruments (like a trumpet or tuba) are blown into.
- Strings, such as the violin or cello, have strings that are played with a bow or plucked.
- Percussion instruments, like the drum, tambourine, and cymbal provide rhythm.

#### **DID YOU KNOW?**

Sound is created by something vibrating. You may not have the tools or carpentry skill of Señor Gómez in the book, but you can still make sound by causing things you have at home to vibrate.



Build: How can you cause a vibration?

- Pluck or hit something stretched taut (rubber bands, fishing line, wire, plastic bags or other flexible plastic...)
- Hit something with a mallet or your hand (aluminum pot or tray, plastic containers, lengths of pipe...)
- Rattle or shake a container of dried rice or beans

[Click here](#) to watch a 3 minute video featuring Ada and the Recycled Orchestra of Cateura.

#### **BONUS**

Do this challenge with siblings or friends. Can you make at least one instrument from each family? Have a concert when you're finished!