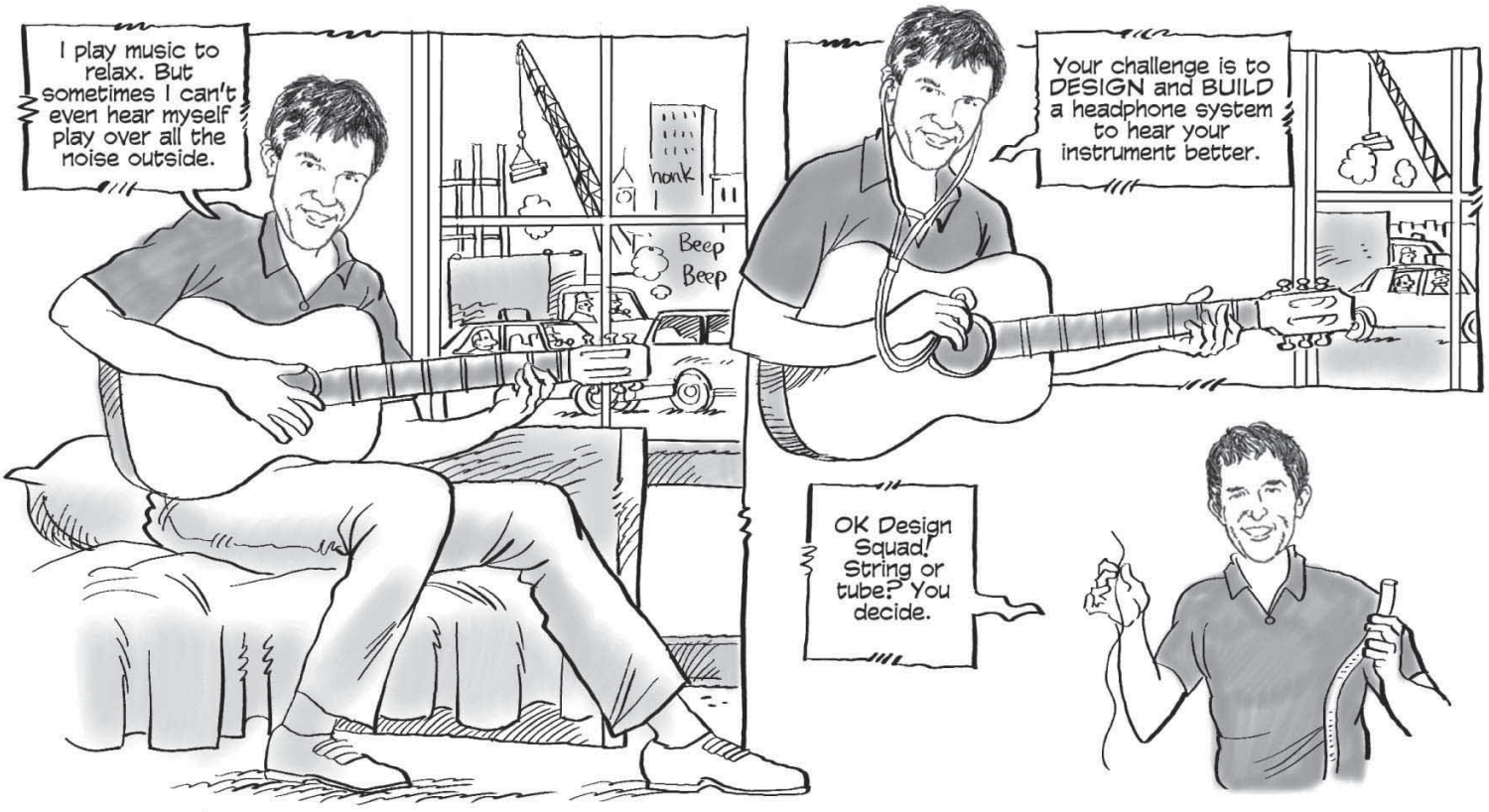
HEADPHONE HELPER

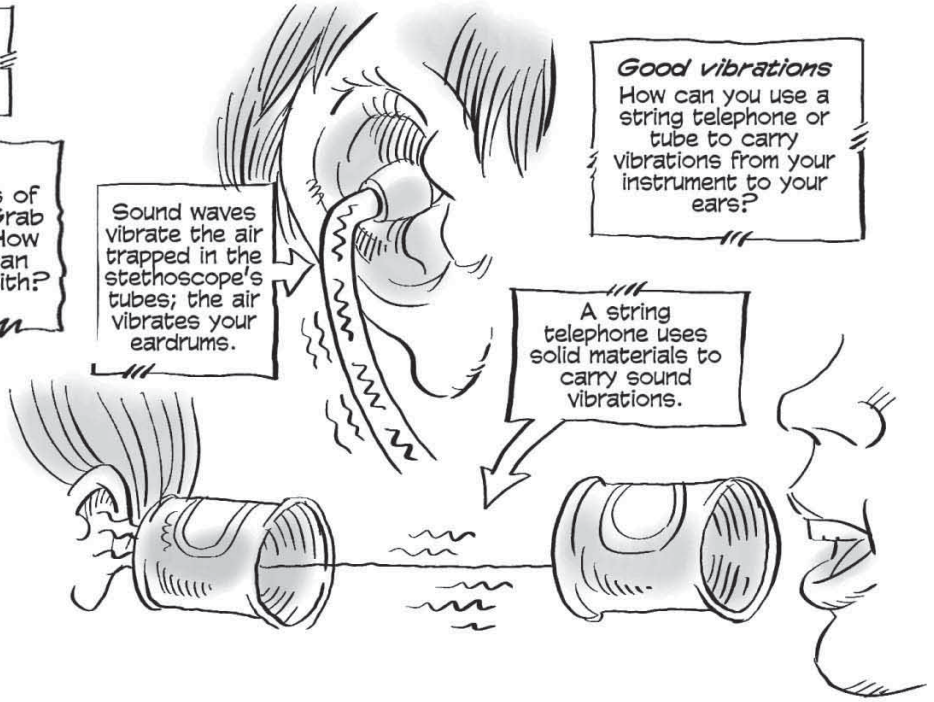
DESIGN SQUAD™ PBS®

as built on TV™

pbs.org/designsquad



BRAINSTORM

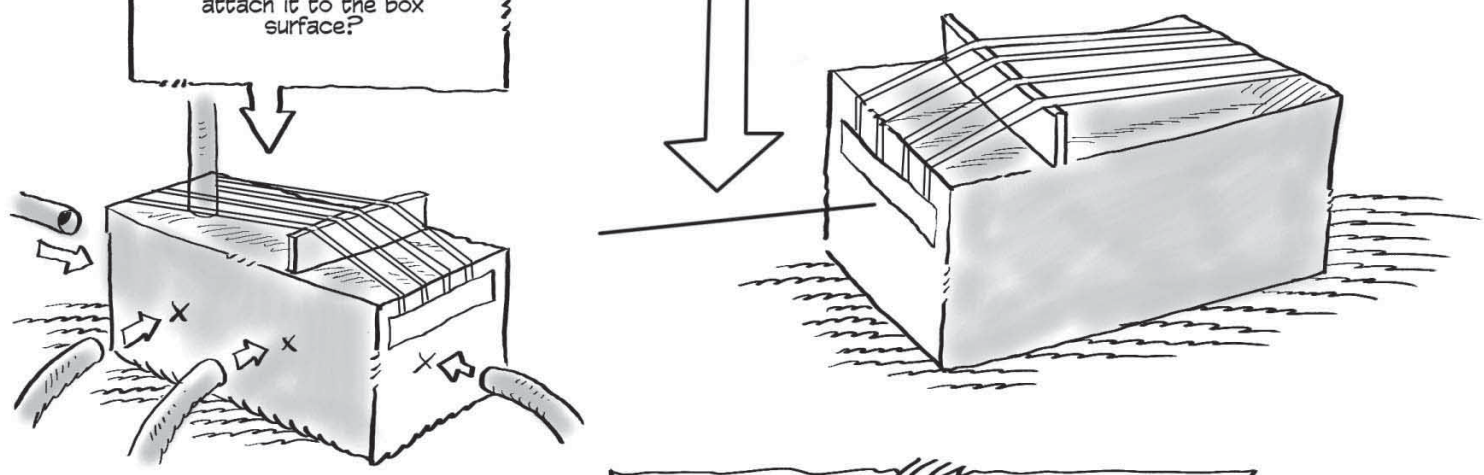


DESIGN AND BUILD

Keep the string tight
A string telephone's string needs to be very tight. How can you keep it tight without lifting the instrument off the table?

Tip: Catch the vibrations
You'll want to transmit as much of the vibration as possible. Find where your instrument is vibrating the most.

Attaching the tube
Will you cut a hole and put the tube inside the box or attach it to the box surface?

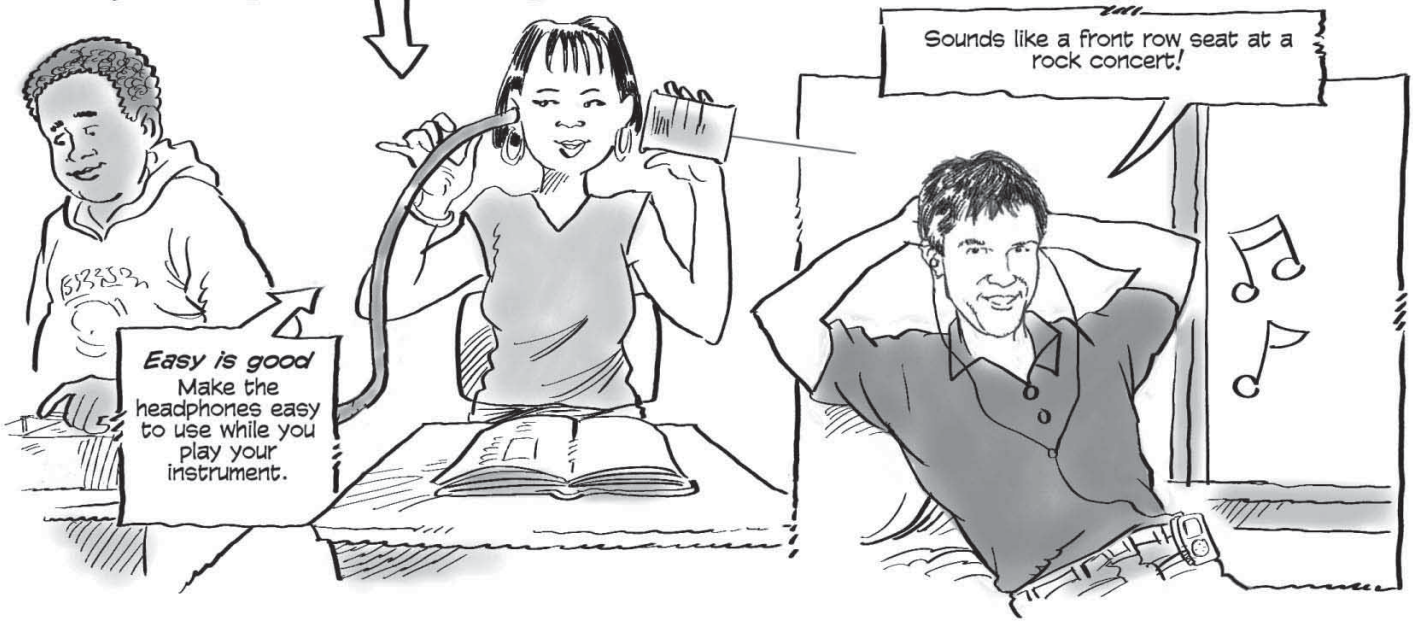


TEST AND REDESIGN

Lighten the load
Is there extra tape, a thick bridge, or anything else reducing how well your instrument vibrates?

Easy is good
Make the headphones easy to use while you play your instrument.

Sounds like a front row seat at a rock concert!



Watch DESIGN SQUAD on PBS or online at pbs.org/designsquad.

Major funding for *Design Squad* provided by

Additional funding for *Design Squad* provided by

This *Design Squad* material is based upon work supported by the National Science Foundation under Grant No. 0810996. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.