Let’s Talk!

People talk on the phone every day. When have you talked on the phone? Who did you talk to?

Some phones are connected by wire. The wire connects your phone to another phone. You speak into a phone. The person on the other phone can hear your voice. Most phones are not connected by wire. Signals travel through the air from one phone to another. All kinds of phones let people talk over a distance.

You can make another kind of phone. It is called a string phone.

Discover how you can send messages by connecting objects.
Find a Problem

1. You are standing on one side of the room. Your partner is standing on the other. You need a way to tell your partner something important. What can you build?

   □ 2. Draw what you will build.
3. Where does sound come from? What happens when an object vibrates?

4. Think about talking into your string phone. What parts of the string phone will vibrate? Draw.
5. How long will the string be?

6. How will you attach your cup to the string?
Choose Materials

Look at the materials. Think about how to make a string phone.

☐ 7. Talk with your partner about ways you might use the materials.

☐ 8. What could make your design difficult?

☐ 9. What is one material you will not choose.  
    Write why.
10. **Draw** what your string phone will look like. **Draw** yourself and your partner using the string phone. **Label** all of the materials.
Make and Test

☐ 11. Work with your partner to build your string phone.

☐ 12. **Draw** your string phone after you build it.
    Does it look the same as your plan? Does it look different from your plan? Write.

14. Take two steps closer to your partner. **Test** your string phone again. Does it work as well as before? Write what you hear.
Record and Share

15. **Compare** your string phone with another string phone. How are the two string phones the same?

16. How are the two string phones different?
17. How can you change your string phone to make it better?

18. Draw your new design. Label all of the materials.