

## Enviro-Do-And-Show Projects

### Enviro-Communicator

An “Enviro-Communicator will show us how sound waves can travel from one plastic cup down a string and into another plastic cup. This is a fun project that you and your friends will have fun both building, and playing with!

#### Materials Needed:

- (2) Plastic drinking cups
- String
- Scissors
- Tape
- Push pin
- 12”ruler
- Pencil or pen
- Piece of string 15 feet long
- Coloring sheets and an “Enviro-word” recording sheet” from our website



#### Step #1

The first step is to measure your string so it is 15’ long using your ruler. Since each ruler length is 1 foot, you will need to wind the string around the long end of the ruler 15 times.

#### Step #2

Cut the string.

#### Step #3

With a push pin, make a hole in the center of the bottom of both cups.

#### Step #4

Push the string through the bottom of each of the cups from the outside. The string should end up inside of each cup. Pull the string through the cup so that you have enough length to make a knot in the string. Do this for both cups.

#### Step #5

Print out 2 of the “Enviro-word” recording sheets from our website.

### **Step #6**

Give one of the sheets to the other person. Each of you ,(secretly), write down 5 environmental words like: water conservation, air pollution, solar power, wind power, thermal power, wind, gardening, green building, etc...Or think up your own.

### **Step #7**

Have you and your friend spread out across the room and pull the string tight. Now, hold the cup up to your ear. Now the fun begins; in just a little louder than a whisper, say into your cup one of the words from your list. Have your friend write down what he thinks you said. Do this for all your words.

### **Step #8**

Now have your friend speak into their cup and this time you can write down what you think they said.

### **Step #9**

Compare both of your lists and see how accurate they are.

**Communicating with sound waves and string...It's that easy.**