

ROYAL SIGNALS CRYPTO CLUB BAKED BEAN CAN COMMUNICATOR

Fast and easy to make, using every day objects you can find around the house.

Sound causes each tin can to vibrate, and this vibration runs along the string connecting the two tin cans. So hang out with your kids and do something fun!

Things You'll Need

- 2 clean cans
- Hammer
- 1 small - sized nail (2mm diameter)
- 20 - 80 ft of fishing line



Instructions

1. Remove the top from each of the cans, leaving one end intact. The end that has been removed will be where you listen and the intact end will hold the phone's "wire."
2. Turn one can upside-down, so that the intact end is facing up.
3. Hammer a small nail through the center of the intact end using a hammer. The nail should make a small, neat hole in the end of the can. Repeat with the other can.
4. Thread one end of the string through one of the nail holes. Make a knot in the string on the inside of the can, so that the string remains attached to the can. Repeat with the other can and the other end of fishing line. The tin cans should now be tied to either end of the fishing line.
5. Hold one tin can, and give the other tin can to someone else. Walk away from each other until the fishing line between the cans is taut.
6. Speak into the open end of one tin can while your partner listens to the open end of her tin can. Switch roles, and listen to the open end of your tin can while your partner speaks into the open end of his.

Tips

- Cover the open ends of each tin can with tape if the edges are sharp.
- Try using materials other than tin for the phone "receivers." Some scientists think paper or polystyrene cup phones produce a better sound than tin can phones.
- Try using different materials for the "line".
- Create a "Party" Line with 3 receivers. Tie a second fishing line to the middle of the first piece of line and attach a can to the other end of it. A third person should be able to join in on your conversation.