

Super Hearing

- 3** Ask a friend to measure the distance of the earphone from your ear when you can just about hear the sound. (If you can still hear the music when the earphone is more than 10cm from your ear, you will have to turn the volume down a bit more and start again.)



- 4** Find a cardboard tube which is about 20-30cm long. (The tube from a roll of cling film or aluminium foil is ideal.) Hold one end of the tube close to your ear and put the earphone at the other end of the tube. Even though the earphone is much further from your ear than it was before, you should still be able to hear the music quite clearly.



- 5** Repeat the experiment using an even longer tube. (You could use a poster tube or a piece of plastic pipe.) Can you still hear the music?