

Why Are We Able to Talk on a Phone?

PHYSICAL SCIENCES

Get curious

Puzzle/quiz

Play the “Telephone.”

Video/ Slide show

The students watch a video about the evolution of cell phones.

Ask your students the following questions: How much do contemporary phones differ from the first cell phone? Were the first cell phones convenient to operate? What other purposes do you use your phones for?

Get going

Constructing

Working in pairs, the students construct a phone from paper cups and then they test its operation.

Talk

Show your students the photo of an old telephone exchange and tell them about the way phone calls used to be transferred in the past.

Ask your students the following questions: What did the work of persons employed at a telephone exchange consist in? What do you think?

Video/ Slide show

Watch a video about the way a phone works.

Ask your students the following questions: What does a phone consist of? What did phones look like in the past? In what way was sound transmitted over long distances using traditional phones? In what way do cell phones connect with one another? Why do we need phone numbers?

Movement game

The students participate in a game that allows them to understand the way the GSM network operates.

Get practicing

Creative expression

The students design and present a phone of the future.
