

## Activity 2

# HOW CAN WE SEND SOUND INTO SPACE?



**Astronauts need to communicate with each other in space, but if they can't talk or shout to each other, what else can they do?**

Can you help me think about what things we do on Earth that might also work in space?

### DID YOU KNOW?

At the moment, astronauts use radios to talk to each other and to people back on Earth, but it takes a while for the messages to get between the radios. It can take up to 20 minutes to get a message from Earth to Mars!



## YOUR CHALLENGE

DON'T FORGET TO TAKE PICTURES!

### 1 RESEARCH

How do we send sounds over long distances on Earth? Would these work in space?



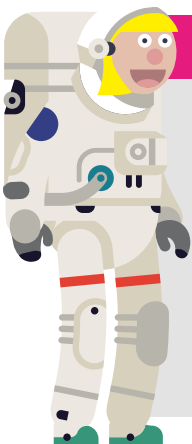
### 2 DESIGN

Come up with an idea for a telephone that can travel long distances using cups and string.



### 3 BUILD

Build and test your telephone design with someone from your household. Did it work? How can you improve it so that the sounds travels even further?



### EMILY'S TOP TIPS

The string between your cups must be pulled very tight for your message to go from one cup to the other.

If you don't have cups, you could use cans or cut cup shapes out of card or paper.

