

Activity 3

HOW CAN WE HEAR SOUND UNDERWATER?



So we've looked at how sound travels and what animals use sound underwater but there's one more thing that I need to find out about.

Physicists, like me, and biologists, who study nature, often work together to map the oceans and study their biodiversity, the variety of life within them. Can you help me look into this a bit more?

DID YOU KNOW?

The loudest underwater sound ever recorded was heard in the Pacific Ocean.

Scientists think it was made by an icequake, an iceberg cracking and breaking away from a glacier. It was so loud it was heard by two different devices that were more than 3,000 miles apart!

YOUR CHALLENGE

 **DON'T FORGET TO TAKE PICTURES!**

1 RESEARCH

Find out about devices that can hear sounds underwater, what are they called and what do they listen to?



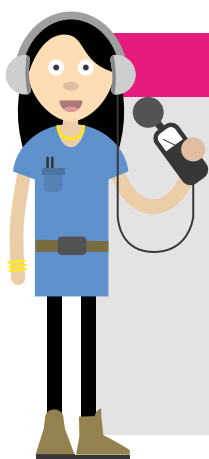
2 DESIGN

Create your own device that could be used to hear sound underwater without you getting wet – you may want to use a plastic bottle with the bottom cut off in your design



3 BUILD

Make your device!
Get someone else to make different sounds underwater to test it out.



CHEN'S TOP TIPS

If you have a bath at home, use it for this challenge! You'll have lots of room for testing and will be able to make sounds from different distances.

Ask your grown up to save their big two litre bottles for this challenge. If you don't have one, try a smaller bottle and let me know what happens.

