

# CONSTRUCT AN UNDERWATER MICROPHONE

## DESCRIPTION

The aim of this 90-minute engineering workshop is to give students the opportunity to get hands on in the construction of a hydrophone (a microphone that can be used for underwater recordings).

Using visual presentations children will discover how sound travels in water. They will learn about the different components of a hydrophone and the importance of each piece in order to detect underwater sounds. Through group work students will brainstorm and put into practice what they have learnt about sound in water and construct their very own hydrophone and test its working ability. Listening to sound recordings of marine animals, students will explore the cacophony of sounds that are produced in the underwater world.

Throughout the engineering workshop, the children’s critical thinking and problem solving abilities will be encouraged. Each school will keep a working hydrophone so they can continue exploring underwater sounds.



### KEY ACTIVITIES

Physics of sound

Hydrophones in real life

Construction of and testing a hydrophone

Problem solving and observation