

EXPLORING OUR OCEANS THROUGH SOUND

Discover the world's biggest toothed whale and how it uses sound to hunt in complete darkness. This workshop explores the physics of how sound moves through water, and how marine animals use sound to communicate. Participants also experiment with using a hydrophone.

Duration: 60 minutes

Course delivery: Oceaneers' trainer

Location: Outreach **Learning area:** Physics

Cost: from €/£3.30 per participant



CONSTRUCT AN UNDERWATER MICROPHONE

This workshop applies engineering and design skills to discover underwater sounds. Using critical thinking, participants design, construct and test their very own hydrophone, examining the science behind each part. Real underwater recordings of marine life bring this engaging workshop to life.

Duration: 90 minutes + follow-up e-learning

Course delivery: Oceaneers' trainer

Location: Outreach

Learning area: Engineering/Technology

Cost: from €/£3.30 per participant



Our trainers are qualified, experienced and enthusiastic marine biologists, with a passion for sharing their knowledge. They ensure all courses are tailored to be age-appropriate.

All our courses support learning in key National Curriculum areas. A workbook for participants is available for all courses. We provide a link for the organiser to download and print these, or can provide pre-printed copies for an additional charge. Teachers/group leaders also receive a handbook of support materials.

Courses are designed for groups of up to 30 participants. All pricing given is based on holding a full day of workshops (up to three 90-minute workshops or four 60-minute workshops in a day) with 30 participants at each session. A higher rate applies for half days or smaller groups.

To book please contact:

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All prices correct at time of printing, Dec 2016. E&OE.



Discover the science of the sea!

**"Very interesting presentation, loved the
underwater sounds"**

Thornleigh Educate Together National School, November 2015

**"Children were very engaged and involved in the whole
workshop. Very appropriate for their age and interests."**

Lusk National School, December 2015

**Engaging interactive STEM workshops
for 7-12 year olds**

Become an Oceaneer and learn about the amazing underwater world!

Our fun educational workshops help children discover the science of the sea by becoming 'Oceaneers' for the day.

Using interactive learning techniques and field research, participants develop and apply their STEM (science, technology, engineering and maths) skills to something every child loves – the ocean and the fascinating marine life within.

Our workshops:



ARR! Marine litter



Marine litter – what a load of rubbish!



Aquatic classroom



Diving for data



Exploring our oceans through sound



Construct an underwater microphone

ARR! MARINE LITTER

Participants discover how litter in water environments impacts animals, humans and aquatic habitats.



Duration: 60 minutes

Course delivery: Oceaneers' trainer

Location: Outreach

Learning area: Ecology/Marine Biology

Cost: €/£4.50 per participant (includes craftwork item).

MARINE LITTER – WHAT A LOAD OF RUBBISH!

Participants conduct a beach survey to investigate shoreline pollution – then work as a team to share their knowledge through creative presentations.



Duration: Three-part programme.
Week 1: 90 minute workshop
Week 2: Beach survey
Week 3: Presentation

Course delivery: Oceaneers' trainer

Location: Field trip

Learning area: Ecology

Cost: from €/£3.30 per participant

AQUATIC CLASSROOM

A tropical aquarium is an engaging, colourful addition to any classroom or community hall. Children are guaranteed to crowd around, eager to learn about caring for marine life. This four-week programme equips teachers with lesson plans, activities and resources, supported by Oceaneers' trainer. The tropical aquarium and contents are included.



Timescale: Four weeks

Course delivery: Teacher/leader and Oceaneers' trainer (trainer visits to lead three 60-minute sessions).

Location: Outreach

Learning area: Marine Biology

Cost: €/£10.00 per participant

DIVING FOR DATA

Explore the sources of marine litter using statistics and graphs. Then delve into a whale's stomach and recover micro-plastics!



Duration: 60 minutes

Course delivery: Oceaneers' trainer

Location: Outreach

Learning area: Maths & Statistics

Cost: from €/£3.30 per participant

"The activities were very useful. The students really enjoyed getting involved and it held their attention throughout."

Our Lady of the Wayside, November 2015

"Extremely happy with the workshop – looking forward to the next one."

St. Philomena's Primary School, March 2016

"A fantastic workshop - thank you!"

Glenageary Killiney National School, November 2015