

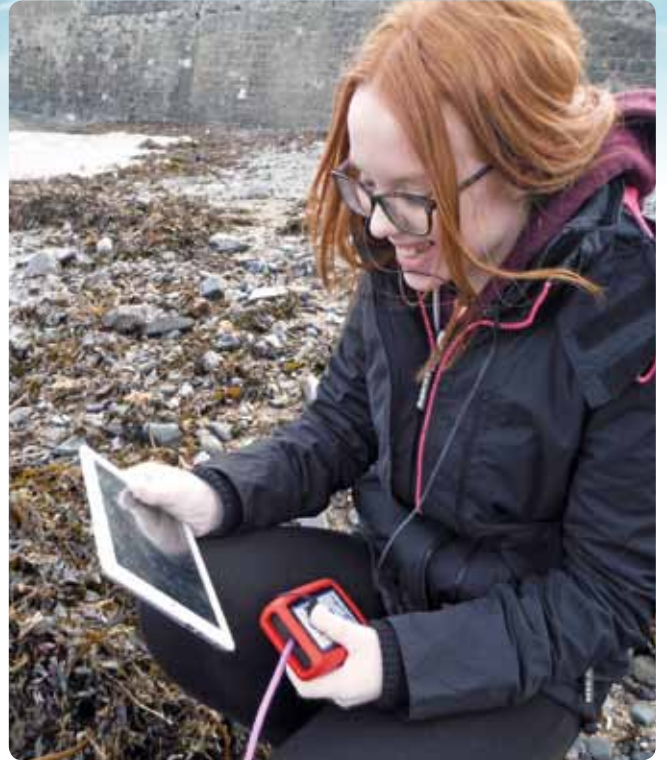


## AQUATIC EDUCATION PROGRAMMES

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# EDUCATION PROGRAMMES OVERVIEW

Seiche Training provides comprehensive aquatic education and awareness programmes to schools and the general public. These interactive, fun and educational programmes have been created by marine biology training experts and provide the ideal link between the aquatic environment and the national curriculum.



## OUR APPROACH

Our aquatic education programmes encourage children of all ages to learn about the wonders of the underwater world.

In order to achieve this our marine biologists introduce children not only to the thousands of creatures that call the aquatic environment their home but also show them how we use technology to study these incredible environments.

Our programmes consist of both short term workshops and long term projects to cater for all interests.

We incorporate reading, writing, listening and practical activities into each of our education programmes to appeal to all learning methods.

**For more information on the education programme:**

Email: [education@seiche.com](mailto:education@seiche.com)

Visit: [www.seichetraining.com](http://www.seichetraining.com)



# EDUCATION PROGRAMMES

## AQUATIC CLASSROOM



The aim of this 4-week aquatic education programme is to integrate aquatic themed lesson plans into subjects taught to children between the ages of eight and twelve.

By incorporating aquatic themed lessons into Science, Maths, English, Geography and Art subjects, students will develop a greater understanding and knowledge on many aspects of the aquatic environment.

A tropical aquarium will be introduced into a classroom and used as an educational tool. This will provide an excellent hands-on teaching tool, as it offers students of all ages the opportunity to learn directly through experience. Caring for the aquarium kindles a sense of responsibility and a genuine desire to learn. A teaching aquarium is a great way for students to learn about a variety of topics and gain valuable life lessons.

To facilitate and provide a teacher-friendly experience, Seiche Training will provide all of the relevant teaching resources, lesson plans and activities thus allowing the teachers an educational and enjoyable experience. On completion of this project the class will be awarded an Aquatic Classroom certificate of participation.

## EXPLORING OUR OCEANS THROUGH SOUND



The aim of this 60-minute sound workshop is to introduce school children to the wonders of sound in our oceans. With visual presentations and interactive activities children will discover the physics of sound and how it travels through different mediums.

Listening to underwater recordings of marine animal vocalisations will demonstrate the huge variety of sounds these animals produce in order to communicate and navigate in an underwater world. Children will discover the world's biggest toothed whale and how it uses sound to hunt in complete darkness.

With use of a real working hydrophone children will explore how and why scientists study underwater sounds. Using technology, they will discover that we can not only hear underwater sounds but can "see" them too.

## CONSTRUCT AN UNDERWATER MICROPHONE



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.

## MARINE LITTER - WHAT A LOAD OF RUBBISH!



The aim of this 90-minute marine litter workshop is to raise awareness of the impact of marine litter on seabirds and other marine wildlife and to enlighten children on changes they can make to help reduce risks to marine ecosystems. With visual displays and samples of typical litter materials we will identify types and sources of marine litter.

Children will learn about seabirds and other marine creatures, their interdependence on each other and their habitat and how they can be affected by marine litter. Students will estimate and check times taken for litter to degrade and identify good practices to minimise household littering.

With arts and crafts, they will personalise their own sustainable shopping bag which can be taken home to begin their journey to reducing litter. Children will be encouraged to spread the "Marine Litter - What a Load of Rubbish" message through the creation of an in-school display board, posters or play.

## TESTIMONIALS

### LUSK NATIONAL SCHOOL, DECEMBER 2015

"Children were very engaged and involved in the whole workshop. Very appropriate for their age and interests. It was great that the lecturer was experienced in travelling and listening to whales and dolphins."

### OUR LADY OF THE WAYSIDE, NOVEMBER 2015

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

## MARINE ADVENTURE CAMPS

On these camps, children can join our Marine Scientist and discover the wondrous wildlife along the seashore. We forage the coastline, investigate life in rock pools, gain hands-on experience using marine biology equipment and unveil the powerful and exciting critters that call the beach their home.

We learn about seabirds and other marine creatures that swim in our seas, their dependence on each other, their habitat and how they can be affected by marine litter.

With arts and crafts, children can personalise their very own sustainable shopping bag to take home and so begin their journey to reducing litter and conserving this amazing environment.



Seiche Training also offers marine research trips, government-accredited professional training in the marine sector and specialised underwater acoustics courses in association with the Institute of Marine Engineering, Science and Technology (IMarEST) and University of Bath. Seiche Training is part of Seiche Ltd, the underwater acoustics experts providing marine acoustic solutions to government, industry, academia and defence sectors for over 20 years.

[www.seichetraining.com/education](http://www.seichetraining.com/education)



HQ  
Bradworthy Ind Estate  
Langdon Road  
Bradworthy, Holsworthy  
Devon EX22 7SF

UK telephone: 01409 404064  
ROI telephone: 08797 13304  
E: [education@seiche.com](mailto:education@seiche.com)