

# BASIC LEVEL

This is the level that we have been doing during this last year. It includes both Mediterranean wildlife and pollution of the oceans. We will discover the animals that live in the Costa Brava and the physical conditions of its habitat. We will also think and discuss the main problems of pollution and its possible consequences.

The first part of the activities takes place in the rocks. In this area we will discover the physical conditions of this environment and also the organisms that inhabit it.

Next, we will go into the water to do snorkelling (with the appropriate equipment and safety material), where participants will discover life underwater (fish, algae, echinoderms, octopus, etc.).

We often divide the group into 2 subgroups in order to have maximum security and better understanding with students.

To finish the day, we will do the 4 stations activity. The group will be divided into 4 and rotate through each station. In one station they will see and learn about the characteristics of living marine organisms. In the second station there will be a large selection of dried samples of organisms, where students will answer some questions about it. The third and fourth station are focused on the discovery and creation of critical thinking. Where the students will have to assess and discuss issues related to pollution - human behavior towards the environment.

*The next two levels below the basic level are the 2 new “high level” options. For those groups that want to focus or “work more” in biology or human action.*



# SEAWEED AND ORGANISMS



It focuses on the marine wildlife of the Mediterranean, both from the sea and the rocky area. Various algae and marine animals will be studied, classified and touched. And will reflect on how these organisms are affected by pollution.

The first part of the activities takes place on the rocks. In this area we will discover the physical conditions of this environment and we will focus on the diversity of algae that inhabit them. We will learn about the characteristics and adaptations of these algae.

Next, we will go into the water to do snorkelling (with the appropriate equipment and safety material), where participants will discover life underwater (fish, algae, echinoderms, octopus, etc.). We often divide the group into 2 subgroups in order to have maximum security and better understanding with students.

To finish the day, the group will be divided into 4 and will learn how the biologists identify and classify the several marine organisms.



# HUMAN INTERACTION- POLLUTION



Focusing on microplastics and discussing and thinking on how pollution can affect our seas, what are the consequences and possible solutions. How human interacts with marine ecosystems.

The first part of the activity is carried out on the beach. Students, by groups, will investigate and evaluate the microplastic that they find at various points on the beach.

The main objectives of the activity are:

- To carry out the sampling according to the established protocol.
- To work rigorously in order to obtain data that can be used at a scientific level.
- Think about the origin of the microplastics present in the sand.

Next, we will go into the water to do snorkelling (with the appropriate equipment and safety material), where participants will discover life underwater (fish, algae, echinoderms, octopus, etc.).

We often divide the group into 2 subgroups in order to have maximum security and better understanding with students.

To finish the day, the group will be divided into 4 and will be doing a different activity in each station.

The 4 stations will be divided into: discovering marine organisms, thinking and discussing about environmental problems (how pollutions can affect our seas), compare our seas, and a conclusion to talk and discuss about the microplastics found from the first activity and extrapolate them to the whole world.

