



# SCIENCE FOR THE YOUNGEST

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## DISCOVERING STEM IN NATURE

Children in Nature, Stem in Nature



**Project Goal:** Our students both learn STEM and spend time in nature in early childhood.

**Project Purpose:** Children's discovery of STEM in nature. Studies were carried out on 4 main themes. Stem's 5E rule was applied to each tema separately.

### 1-Learning Stem from Waste

Our problem situation was determined as the pollution of wastes to the environment. Recycle bins were built to collect waste. A robot was designed to clean the environment. Our criteria are that the robot is made of waste materials, that at least 1 natural material is used, that it has a container where it can put the wastes and that it can stand.



Design Product



Design Product

### 2-We Learn Stem From Plants

The problem was determined as the harm of chemical dyes to people. A color chart was created from plants, vegetables and fruits. Natural dye was created from plants as a design product. Paintings were made by children with natural dyes. Our criteria is to form paint by squeezing and crushing without boiling.



Design Product

### 3-Learn Stem in Water

The decrease in clean water was determined as the problem situation. The water cycle experiment was carried out. As a design product, a device was designed to clean dirty water. Our criteria is that this instrument is designed with natural materials.



Design Product

### 4-We Learn Stem from Animals

The extinction of some animals has been identified as a problem situation. It was investigated what can be done to prevent the extinction of animals. A conservation area was created for the endangered stag beetle. Our criteria is that it is a protected area that will be suitable for the living conditions and diet of the stag beetle.

In the Animals section, we noticed that there are a lot of different endangered animals. We have determined that this section is open to development. We should reach more students with projects on environmental pollution and protecting nature.