

BEYOND SCHOOL PROJECT

LESSON ACTIVITY PLAN DRAFT

ACTIVITY	Water in movement produces energy
The aim of the activity	To show the circuit of the water from the rain to the production of electricity
Places where the event can be held	Lakes and rivers, hydroelectric power station
Age group for the activity	10-15

A. BEFORE OUT-OF-SCHOOL LEARNING ACTIVITY	
Educational tools	Science kits of renewable energies
Method, technique and strategies	Experimentation
PRACTICE	
Introduction of the activity	Explanation of different sources of energy, with the awareness about environmental impact, pollution, sustainability and renewable resources.
Development of the activity	The students are split in groups and given to each group a science kit about a kind of renewable energy (solar, wind, hydro), where they should build the engines and understand how the energy is transformed into usable electricity.
Evaluation of the activity	Accomplishment of the task

B. IN THE OUT-OF-SCHOOL LEARNING ENVIRONMENT	
Educational tools	
Method, technique and strategies	Educational trail
PRACTICE	

Introduction of the activity	Visit to the “water house”, to a brief introduction about the history of water uses and collection methods in that area.
Development of the activity	Educational trail across the mountain and natural areas, from the place where water rises, through the rivers until the dams built to produce energy in ancient hydroelectric power station. During the trail it is also talked about the biodiversity and importance to preserve it.
Evaluation of the activity	

C. AFTER OUT OF SCHOOL LEARNING ACTIVITY

Educational tools	Reusable/recycled materials
Method, technique and strategies	Modelling
PRACTICE	
Introduction of the activity	Formation of the groups and explanation of the task.
Development of the activity	Creation of three-dimensional models of a Hydroelectric station, using reusable/recycled materials (cereal boxes, paper rolls, plastic containers, etc) .
Evaluation of the activity	Exhibition of the produced models.