

**BEYOND SCHOOL PROJECT
LESSON ACTIVITY PLAN**

ACTIVITY 3	ENERGY SOURCES IN THE PAST AND TODAY
The aim of the activity	Getting to know the process of obtaining energy in the past and focusing on modern energy sources
Places where the event can be held	EC1 – Science Centre
Age group for the activity	9 -10 years old

A. BEFORE OUT-OF-SCHOOL LEARNING ACTIVITY	
Educational tools	Questionnaire checking knowledge before going to EC1 Science Centre
Method, technique and strategies	Reminder of natural issues related to the location of the industry – terrain, base of natural resources and access to water
PRACTICE	Educational video about energy sources. Getting to know the profession of a miner
Introduction of the activity	Brainstorming – the impact of mining activity on the natural environment
Development of the activity	Discussion of students ideas presented during brainstorming, verification of children’s ideas with information on the impact of the mining industry on the environment based on materials found by students on the internet during computer classes
Evaluation of the activity	Workshops on the science issues discussed during the lesson

B. IN THE OUT-OF-SCHOOL LARNING ENVIRONMENT	
Educational tools	Workshops at the EC1 Science Centre
Method, technique and strategies	Visiting the EC1 building, learning about the history of the EC1 Museum
PRACTICE	A show of the interior of the former power plant which was located in the current EC1 building

Introduction of the activity	Participation in the demonstration of machines located in the former power plant. Step by step learning of the energy generation process
Development of the activity	Students took part in workshops during which they impersonated employees of the former power plant, had to face difficulties that often disrupted the operation of the power plant, their task was to solve problems together using mathematics. The workshops were also aimed at directing students' attention to the search for new solutions for obtaining energy.
Evaluation of the activity	Quiz conducted by the workshop leader

C. AFTER OUT OF SCHOOL LEARNING ACTIVITY

Educational tools	Art and science classes at school.
Method, technique and strategies	Talking about modern energy sources, enumerating the advantages and disadvantages of using the sun, wind and water in obtaining energy.
PRACTICE	Preparation of materials needed to make a windmill (pot, soil, windmill straw).
Introduction of the activity	Demonstration of how to do the task - create your own windmill
Development of the activity	Self-made windmill, discussion of the finished project.
Evaluation of the activity	Questionnaire

APPENDIX-1:

