The Bulgarian Delegation for the Science on Stage Festival in London 2015

"DEMONSTRATION OF OPTICAL PHENOMENA WITH EVERYDAY MATERIALS" –
Project of Nikola KARAVASILEV – selected to be presented as an workshop



In the project we demonstrate some basic optical phenomena, taught at school: refraction and reflection of light, total internat reflection, absorption and scattering etc. The main purpose of the project is these phenomena to be presented in an interesting and attractive way, using objects from out everyday life, on which basis, I will the "complicated" scientific theory is explained in an attractive way.

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THE LIGHT WITHIN BULGARIAN FOLK COSTUMES Project of Krasinela GEORGIEVA - selected to be presented as an workshop

Bulgaria, Gabrovo, National Aprilov High School

The idea of the project is to motivate further the students, who show an interest in the natural



sciences, through the development of extracurricular projects. It aims to build a bridge that connects these modern times, dominated by science and technology to the history of the Bulgarian crafts; a bridge that leads to the national traditions and, more specifically, to the Bulgarian folk costumes and the radiance of the colours with which they are suffused. This allows for a re-enactment of the methods of wool dyeing and the crafting of bracelet.

MAGIC LIGHT Project of Tsanka NENCHEVA, Mariyanka HRISTOVA, Madlena GOTSOVA Bulgaria, Sevlievo, ZDG "Radost"



The aim of the project is by tests and experiments to provide scientific knowledge to pre-school children for for the light and its characteristics. As a result, they will understand the laws of nature and perceive light as a natural phenomenon. With the proposed simple experiments, and the kids participation in them, the independent thinking and the interest in discovery is provoked in the children.

MATHEMATICS THROUGH EXPERIENCE Project of Nedyalka HRISTOZOVA,

Bulgaria, Stara Zagora, 6th Primary School St. Nikola



The project aims to shows a number of ways to organize summary lessons for the different branches of Math covered in the 5th- 7th grade (11-13yrs) in which the use of basic mathematical knowledge in some professions is demonstrated. The presented activities present some of the practical applications of the studied Math material in various professions. For example we use rational numbers as businessmen, geometry as designers, stereometry as architects. The

students are put in real life situations and apply their knowledge, skills and creativity on their own. Our goal is to develop the students' creative ideas and create conditions for their practical realization.

EXPERIMENTS WITH PLANTS Project of Daniela GEORGIEVA Bulgaria, Kyustendil, Fifth Primary Shcool "Hristo Botev"



with the sensors from Laboratory Fourier.

The project aims in teaching young school children about the growth of plants and formation of practical skills how to care for them using ICT.

New technologies and techniques are used in 2nd grade education, which develop cognitive interests in the study of plants and skills for conducting experiments on the influence of environmental factors in the growth of plants. The project experiments investigate the influence of water, light and heat on the plant's growth. The results from the experiments are reported

STUDYING THE SOLAR ACTIVITY

Project of Nadya KISKINOVA

Bulgaria, Stara Zagora, People's Astronomical Observatory

The tasks related to observing and studying the Sun and its influences on the



completely approachable for the amateur-astronomers. That has been one of the priorities of the People's Astronomical Observatory in Stara Zagora ever since it was established.

Our telescope is 80/1200 refractor. We prefer to draw sunspots because the eye registers even the tiniest disturbances in the solar photosphere. We take pictures. We participate in data exchange with International Solar Research Centers in EU.

We monitor the processes in the ionosphere through reflected radio waves (24 kHz) using SID-monitor provided by the Solar

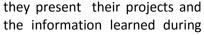
Center at Stanford University in 2009. We have our first results. All these activities are elements of scientific investigations, performed by the students and increasing their interest in sciences.

NATURAL SCIENCES AND STUDENT'S CREATIVITY

Project of Rositsa KONOVA and Krasimira POPOVA:

Bulgaria, Sevlievo, Vasil Levski High School







Vasil Levski High School organizes natural sciences' week every year during the month of April. Students of different ages held experiments and make demonstrations. In addition, models for which they have used classes in natural sciences.

Student's work and searching for solutions of different problems is guided by the teacher. We are going to present a small part of our projects on the Science on Stage Festival in London.

BILINGUAL CHILDREN IN THE MAGIC A WORLD OF NATURAL SCIENCES Project of Mariana GOSPODINOVA end Tsvetalina ZANKOVA

Bulgaria, Ezerche village, "St. Paisij Hilendarski" primary school



live.

Raising the activity, cognitive interests and initiative of students is achieved by the teacher in Science classes as compulsory schooling and other activities which are out of class. Acquisition and development of ecological habits and culture is realized in our Eco-club, where we crate the opportunity to communicate freely on specific topics; obtain practical skills and competences for solving problems arising in real life situations. This is achieved by successfully developing student's and school projects suitable for science education. Our main aim is the formation of a positive attitude towards the nature, which is essential for the whole education of the

students, for their realization in the environment in which they

THE BEE HONEY – FOOD AND MEDICINE Project of Zlatka GAROVA

Bulgaria, Parvomay, Secondary School "Asen Zlatarov"



The aim of the project is to perform scientific surveys by students in a hive with baby- bees. It is achieved by observations on the prairies; meetings with local well-known bee-keepers; collecting of scientific data on the ecological topic, related to the live and organization of bees; analyzing and summarizing the results; work with a computer for preparing some charts and tables on the topic. In this way we combine different subjects and requires creativity and teamwork of the participants with teachers of biology, chemistry, IT, and increase their

interest in natural sciences and their applications.