

**ENTREPRENEURIAL INITIATIVES IN EDUCATION:
“The Alchemist’s night” - Czee republic**

The Alchemist’s night





Data

Responsible: Lidmila Juračková

School: Stredni prumyslova skola Otrokovice

Grade: 1.-4. grade, chemical classes

Duration: 4 h

	<p>Briefing:</p> <p>The Alchemists' night was held in mid-December 2015 at the SPŠ Otrokovice. Over 350 participants experienced a magical evening full of alchemical experiments, which already rulers took pleasure ages ago.</p> <p>Children and their parents have seen a lot of light experiments, birth of Pharaoh snake, they tried process of making soaps, gold coins, deciphering secret writings or healing abilities of the old masters-healers. Grandmaster and his assistants explained to them how to make pure gold from plums or construct perpetum mobile.</p> <p>Almost a hundred students of all grades of the chemist field participated in the program. They prepared the chemical experiments for the Alchemists' night and accompanied visitors in the school premises.</p> <p>Entrepreneurial competences:</p> <p>Communication, proactivity, initiative, planning, creativity, goal orientation, responsibility, team work, foresight, the ability to learn from mistakes, inventiveness</p> <p>Key words:</p> <ul style="list-style-type: none"> • Science, chemistry, experiments, natural science, the research training, entrepreneurship
<p>Development</p>	<p>Aims:</p> <ul style="list-style-type: none"> • Know real professional and personal qualities of students when organizing school-wide events • Independently solve ordinary working situations • Ability to search for information (theoretical basis for alchemical experiments) • Proposing ways and possible solutions (to identify suitable trials in terms of organization, financial security) • Gain knowledge and skills in teamwork • Learning to communicate effectively with superiors (in this case with the school management) and appropriately cooperate with them • Exploit ICT resources - invitations, banners, presentations, videos • Learn to speak in public (via their own presentation) • Learning how to present the results of their work (newspapers, websites, facebook)

Development:

Almost a hundred students of all grades of chemist field participated on the program. They prepared the chemicals for the Alchemists' night, devised a total of 35 attempts for the general public, they brought the tea candles from home which made the atmosphere of evening events, accompanied visitors in the school premises. The preparations were running since early November, the coordinator of the event was a teacher Lidmila Juračková.

List of experiments:

Gilding of coins
Blue flask
Making soaps
Magic flask
Flammable gel
Burning hands
Inflammable handkerchief
Chemists coffee
Chemists bar
Trampoline
Secret writing
Pharaoh snake
Ghost in a bottle
Slime
Fake blood
Fireflies
Colored flames
Burning font
Volcano
Bengal fire
Expansion
Bouncing teddy bears
Lightning in a bulb
Fluorescence
Elephant toothpaste
Sparklers
Convicted thief
Nitrocellulose
O₂ generator
Burning beer
Blue beads

Assessment:

The evaluation took place during the preparation, during ongoing experiments, a few days after the event, when students met with their coordinator in lessons and discussed together about the attempts, about the reactions of visitors.

Feelings:

Based on the feedback the students found which experiments they want to keep for next year and which ones they want to exchange. We found out that we need to streamline the system after the action. Preparations have been mastered very well, it is necessary also to remember to the safe evacuation of premises, cleaning of candlesticks, cleaning benches, classes.

Experimental teaching and activities in general are an attractive way to attract the public to the natural sciences. And motivate students to show initiative and activity in the preparation of extracurricular programs. Game as a motivational feature works perfectly for high school students of all grades.

Further feelings and recommendations:

- Proceed to the entire project strictly from the perspective of management so that students realize their individual stages: planning, organizing, managing, monitoring and motivation
- Put more emphasis on teamwork and awareness of the role of each member of the team
- From the position of leadership encourage all classes at school so that next year they are more involved not only in the program of the Alchemists' night, but also in promoting this event (pre and post).