**Javna prezentacija projekta Razvoj STEM programa u Osnovnoj školi Stari Jankovci**

Javna prezentacija projekta Razvoj STEM programa u OŠ Stari Jankovci održana je 27. listopada 2023. godine u Osnovnoj školi Stari Jankovci. U projektu je tijekom godine dana sudjelovalo više od 200 učenika naše školi te 21 odgojno-obrazovni djelatnik. Prisutni su mogli razgledati dio onoga što smo radili na dosadašnjim radionicama te i sami sudjelovati u nekima od njih.

Tako su učenici nižih razreda pokazali kako se poduzetnikom može i treba biti od malih nogu. Sadili su i prerađivali biljke kao što su menta, bazga, peršin, ružmarin, paprika, pakirali ih u recikliranu ambalažu te uspješno prodavali tijekom prezentacije.

Da sav otpad nije za smeće, pokazali su učenici koji su na radionicama izrađivali umjetnička djela i nakit od elektroničkog otpada. Rabljene slušalice, žice, baterije, USB stikovi u njihovim su rukama postale jedinstvene slike, satovi, ogrlice, narukvice i naušnice. Pored ovoga, posjetitelji su mogli vidjeti i modele različitih kemijskih spojeva, živčane stanice te sudjelovati u stvaranju modela planeta Sunčeva sustava. Zainteresirani su se mogli okušati i u izradi te sigurnom spuštanju padobrana kao što je to činio jedan od najznačajnijih Hrvata svih vremena, Faust Vrančić.

Novosti iz svijeta tehnike bile su posebno zanimljive kako učenicima, tako i učiteljima te svim posjetiteljima. Mogućnosti rukovanja robotima, robotskom rukom, dronom ili odlaska u nove svjetove korištenjem VR naočala, svima su otvorila vrata u nove dosege informatičke tehnologije.

Da su naši učenici na odličnom putu da postanu još bolji znanstvenici, pokazali su i na radionicama izrade lava lampe te spajanje strujnog kruga koristeći bateriju i limun ili krumpir te spajanje baterije na električni uređaj (žarulja), kao i proizvodnjom ekoloških proizvoda za kućanstva poput bioomekšivača od lavande, nevenove masti, kreme od čuvarkuće te sapuna od maslinova ulja.

Mali su znanstvenici posebnu spretnost pokazali izradom modela uređaja za gašenje požara te njegovom primjenu uspješno predstavili gašenjem manjega požara.

Većina ovih radionica bilo bi gotovo nemoguće zamisliti bez moderno opremljene učionice kemije koju je škola dobila u ovome projektu.

Ravnatelj Lučić istaknuo je kako su učenici ovim projektom i različitim radionicama razvili interes za STEM područje kao i vještine potrebne za daljnje obrazovanje. A kako su i sami učenici pokazali izuzetno zadovoljstvo stečenim znanjem i vještinama, završetak projekta neće značiti i završetak radionica već nastavak pohađanja programa koji ih zanimaju.

Na poveznici možete pogledati prilog lokalne televizije:

<https://youtu.be/kvr0xyNAwfE?si=cHx5MwOzosxG-gFq>

**Public presentation of the Project “Development of STEM programme in Stari Jankovci Primary school**

The public presentation of the Project “Development of STEM programme in Stari Jankovci Primary school “ was held on October 27, 2023 in Stari Jankovci Primary school. More than 200 students and 21 educational worker participated in the project during the year.

Visitors were able to see a part of what has been done in previous workshops and also participate in the workshops at the occasion.

The students of the lower grades showed how one can be an entrepreneur from an early age. They planted and processed plants such as mint, elderberry, parsley, rosemary, peppers, and then they packed them in recycled packaging and finally they sold their products during the event.

That all waste is not trash was shown by students who made works of art from electronic waste at the workshops. They made unique pictures, watches, jewellery (necklaces, bracelets, earrings) by using headphones, wires, batteries, USB sticks.

Visitors could also see models of different chemical compounds, nerve cells and to participate in the creation of the models of the planets of the Solar System.

Those interested could try their hand at making and safely lowering parachutes, as was done by Faust Vrančić, one of the most important Croatian scientists.

News in the field of technology was particularly interesting to students, teachers and all other visitors. The possibility of handling robots, a robotic arm, a drone or going to the new worlds using VR glasses demonstrated the new technological reach.

Students showed that they are well on their way to become better scientists by showing theiin the workshops. There they made lava lamp, connected a circuit using a battery and a lemon or a potato and connecting the battery to an electrical device (light bulb), and also ecological household products such as natural lavender fabric softener, calendula ointment, houseleek cream, olive oil soaps.

Our young scientists showed their skills by making a model of fire extinguisher and successfully demonstrating its use by extinguishing fire.

Most of these workshops would not be possible without well equipped chemistry classroom. The classroom was equipped as part of the project.

The principal of Stari Jankovci Primary School Anđelko Lučić pointed out that through this project and various workshops our students developed interest in the STEM field as well as other skills needed for further education. As the students showed great satisfaction with the acquired knowledge and skills, the end of the project will not mean the end of the workshops but continuation of work according to the interests of the students.

You can watch the local television report on the following link:

<https://youtu.be/kvr0xyNAwfE?si=cHx5MwOzosxG-gFq>