**Raziskovalna dejavnost na GESŠ Trbovlje**

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***Izvleček***

*Naravoslovec prihaja do novih spoznanj na ta način, da opazuje, postavlja hipoteze in jih preverja z eksperimenti. Nekateri dijaki želijo sami izvajati raziskovalno delo, seveda je pri tem pomembna njihova radovednost in želja po pridobivanju novih spoznanj. Delo mentorja, ki vodi dijake pri raziskovalnem delu, je ključna pri tem procesu.*

*Na naši šoli, GESŠ Trbovlje se lotevamo raziskovalnih nalog že zadnjih 30 let. Glede na to, da živimo v Zasavju, ki spada med močno degradirana območja, je bila večina raziskovalnih nalog povezana z okoljsko problematiko. Tako sta bili pod mojim mentorstvom uspešno opravljeni dve raziskovalni nalogi: Določanje vsebnosti kovin v laseh zasavskih srednješolcev in Meritve pljučne kapacitete pri zasavskih srednješolcev. V letošnjem šolskem letu je v teku še ena raziskovalna naloga z naslovom Zlivanje celic pod vplivom visokonapetostnih električnih pulzov, ki pa je vezana na nove tehnologije.*

*Raziskovalna dejavnost pomeni veliko dodano vrednost za dijake, ki želijo s pomočjo eksperimentov najti odgovore na svoja vprašanja.*

***Ključne besede:*** *raziskovalno delo, hipoteza, eksperimenti, okoljska problematika, določanje vsebnosti kovin, meritve pljučne kapacitete.*

***Abstract***

*Naturalist leads to new insights in this way , to observe , to make hypotheses and verified them by experiments. Students who want to carry out the research work , of course, is important in this context their curiosity and desire to acquire new knowledge. The role of the mentor who leads students in research work is very important.
In our school , GESŠ Trbovlje are undertaking research projects over the last 30 years . Given that we live in Zasavje , which is a heavily degraded areas, the majority of research projects related to environmental issues . Two research tasks were successfully completed under my mentorship: Determination of metal content in the hair of zasavje students and Measurements of lung capacity of zasavje students . In this school year, another research project is carried out and it is called Fusion of cells under the influence of high-voltage electric pulses , which is linked to new technologies .
Research activity is suitable for students who wish through the experiments find answers to their questions .****Keywords****: research , hypothesis , experiments , environmental issues , the determination of the metal content measurements of pulmonary capacity .*