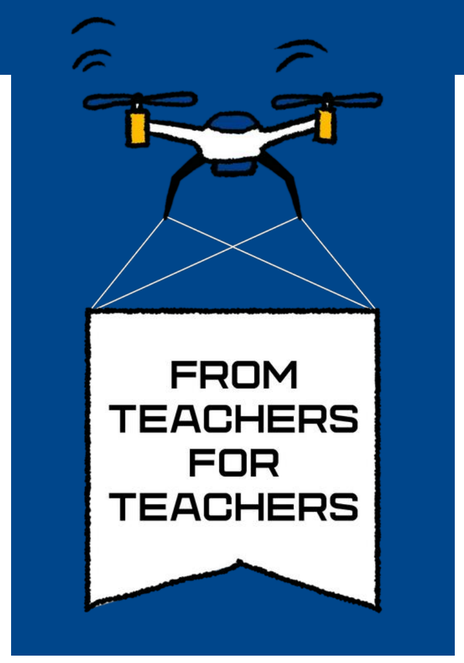

TECHNOLOGIES IN STEM EDUCATION

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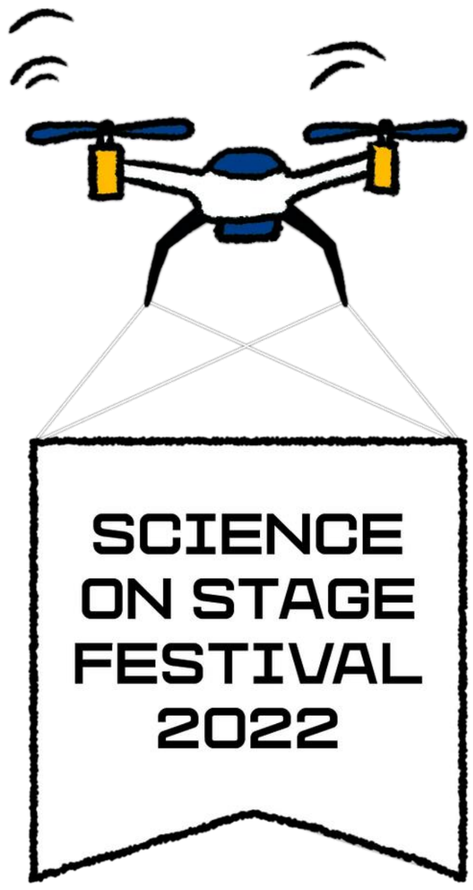
Improving Scientific Thinking by Programming a Makeblock Neuron Creative Lab Kit

Children are usually interested in the work of automatic systems in their environment for example railway crossing, alarm systems, or smart crosswalk. We are analysing and modelling operation of these during our collective creative work. Our goal is to be able to create self made projects in the future, which are usable in everyday life. The technical solutions of our environment are modelled by the electronic modules of Makeblock Neuron Creative Lab Kit in our project. In each microproject the description of the model, the interconnectivity of the electronic modules, the operational programme code and the functional environment of the model are presented. We use visual development environments for programming. The adaptations of these microprojects are offered to primary pupils aged 8-12. These pursuits apply incorporate several fields of knowledge and science such as environmental studies, technology and design, digital culture. Thus it undoubtedly enhances the cooperation of educationalists.



The key of success is the cooperation.

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