Letter to parents about the MINT boxes

Dear parents and guardians!

We are very pleased to announce that we are organizing an exciting STEM project (science, technology, engineering and mathematics) for your children in cooperation with the elementary school XXX am XXX. The aim of this project is to arouse the students' interest in these promising areas and to provide them with practical insights.

Project overview:
The STEM project will take place at four different stations, each of which will be carried out in cooperation with a local company. At each station, the children can expect exciting and instructive tasks that give them an understanding of the world of STEM subjects.

The four stations in detail:

1. **Station: Mathematics – Cooperation partners:** HELDECO

Highest precision and accuracy are a prerequisite in CNC technology in order to be able to produce workpieces for the aircraft, hydropower, food, heavy industry and much more. The caliper is used to measure the inner diameter of holes and the outer diameter of bolts. Our apprentices are on hand to provide advice and support in reading and understanding technical drawings as well as in the correct handling of various measuring equipment. The aim of this exercise is to provide practical insights and the diversity of the profession of metal technology – machining technology module.

2nd Station: Computer Science – Cooperation pankl RACING SYSTEMS
In an increasingly digital world, information technology (IT) is gaining in importance in almost all areas of life. It is therefore crucial for our children to become familiar with the basics of IT at an early age. At the station of Pankl Racing Systems, we go back to one of the "origins" of digitization together with your children by dealing with Morse technology. We learn how to deal with binary communication, data compression and signal transmission in a playful way. How does that work? The group work consists of coming up with a word and translating it into Morse code. After that, the word is actively "Morst" and the Morse code heard is translated back into the searched word using the Morse alphabet.

3rd station: Natural sciences – cooperation partners: RHI MAGNESITA
The MINT Box Natural Sciences includes the topic of pH value determination.
The students can use scientific methods to determine pH values of various everyday liquids such as soap, cola, apple juice, lemon juice, etc. in a playful way.

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ONE STEP AHEAD.

4th station: Technology – cooperation partners:
Electricity is an important helper in our everyday lives. But: What is electricity and what is a lemon battery? A lemon battery means that you can easily generate electricity yourself with the help of a lemon and a few other little things and perceive the flow of electricity via headphones, or make a small light shine.

Organizational information:
The project is carried out during regular teaching time at the elementary school. The students are divided into groups and go through all four stations at the same time. Each station is supervised by apprentices from the respective companies and accompanied by teachers from the elementary school.

Goals of the MINT boxes:

- Promoting interest and skills in STEM subjects
- Insight into various professions and applications in the STEM fields
- Strengthening of independent and team-oriented work
- Practical and playful transfer of knowledge and skills

We are convinced that this project will be a valuable and enriching experience for your children. We look forward to taking your children on a journey of discovery into the fascinating world of mathematics, computer science, natural sciences and technology.

Best regards,

Susanne Aldrian
Your career search support
of the Styrian Economic Society
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