

Self-directed Learning in STEM Education

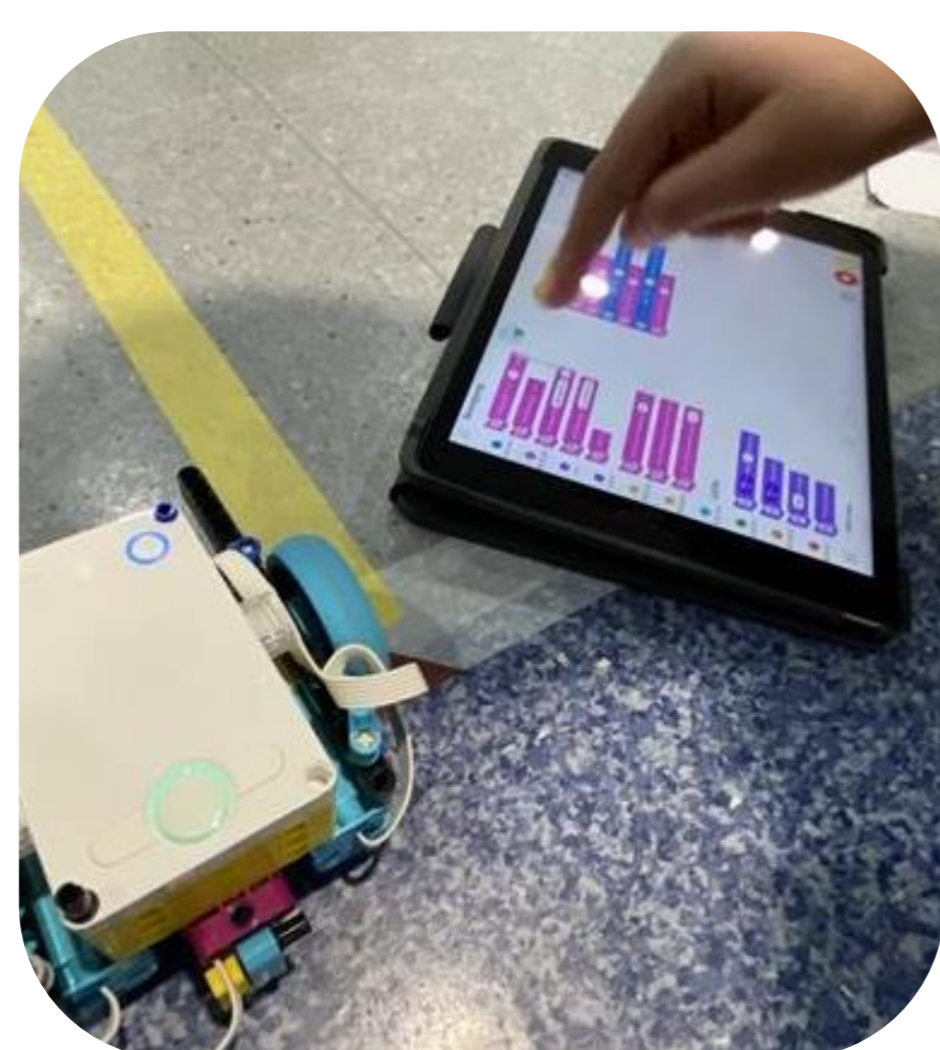
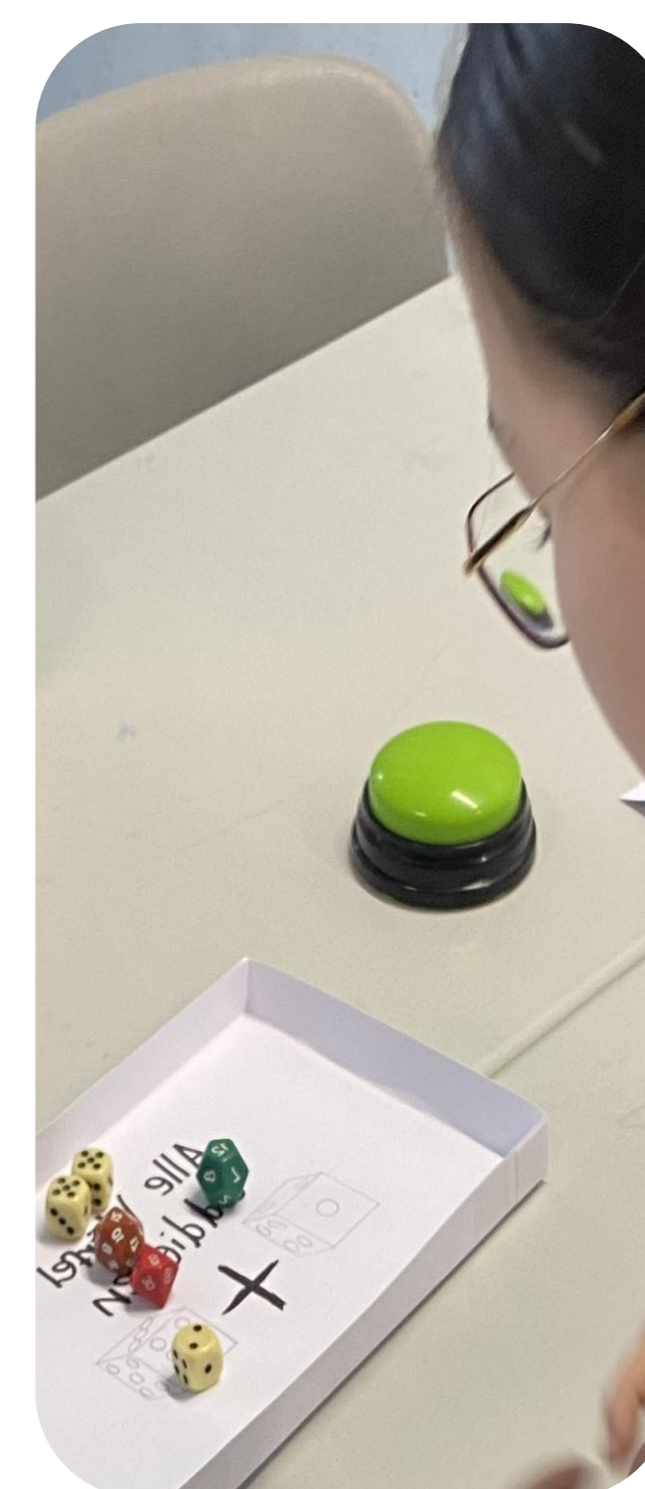
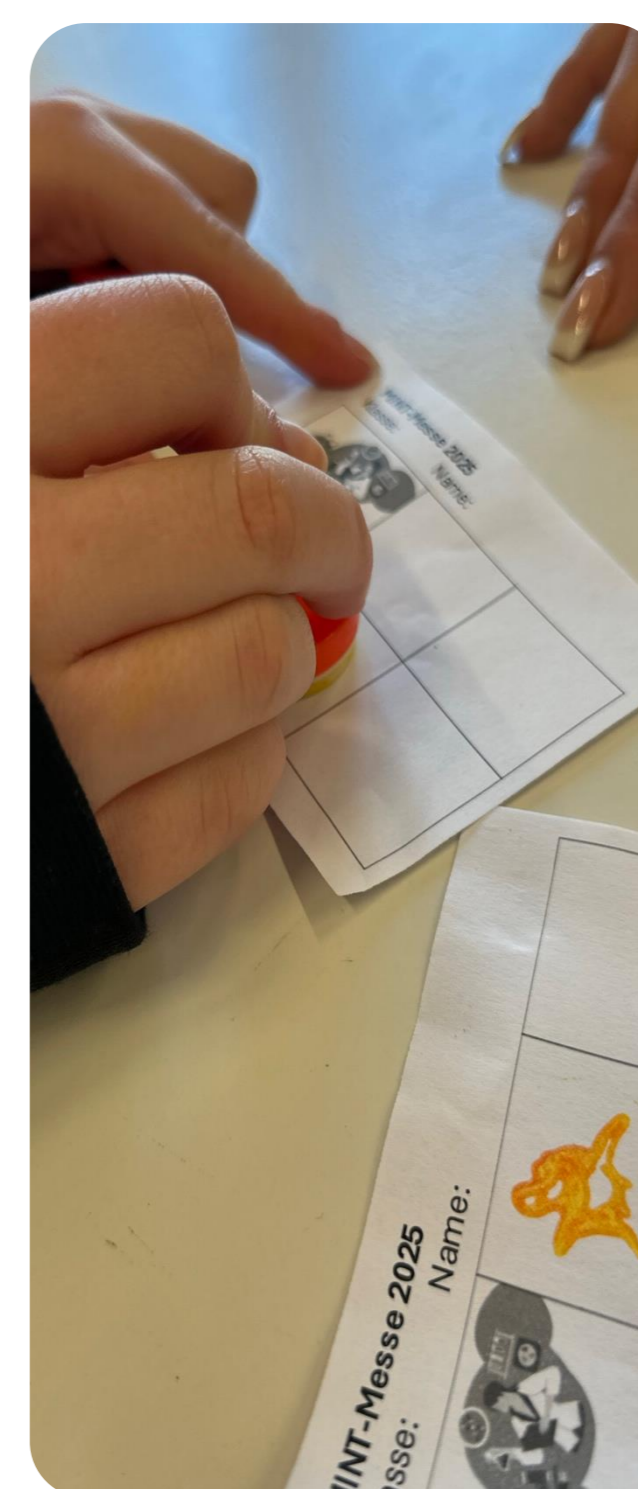
Selina Kirchner, Rebecca Alberti & team | Graf-Stauffenberg-Gymnasium | Flörsheim | Germany

Interactive STEM fair

A STEM fair from students for students

Every year, Graf-Stauffenberg-Gymnasium invites students from **grades 5 through 13** to attend an **interactive STEM fair**. The fair is based on Confucius' motto: "Tell me and I will forget. Show me and I may remember. Let me do it and I will understand." This **hands-on principle** has been inspiring students of all grades at Graf-Stauffenberg-Gymnasium for three years now.

Individual students, groups, courses, clubs, and classes from all grades can participate with their **own exhibition booth**.



All booths feature a hands-on stand that invites the school community to actively experience the STEM fair through **experiments, puzzles, and games**.

The fair is then **visited by all students** of the school throughout the morning. They collect stamps at each hands-on stand, vote for the best booth, and experience STEM up close. Older students take on some of the organizational tasks.

From programming flying drones to experiencing flame coloring, mental arithmetic duels, a race with Lego robots, or dyeing flowers—the world of the STEM fair knows no bounds.

This STEM fair brings science to life and shows students the diversity of this field. There really is something for everyone here!