



## WORKSHOPS

### **DESIGN THINKING – Innovative product development using creative methods**

Students learn a structured and creative approach to developing new products and innovations. Working in small groups, they brainstorm and collaboratively develop ideas for the future of aviation and space technology, and present their solutions to the class. In doing so, they use the knowledge they have acquired about STEM technologies on the ground floor and transform it creatively into their own visions of the future.

*Target group: Years 7 – 13*

### **CODING – Developing apps through creativity and logic**

Students learn how to programme a mobile app using block-based coding, enabling them to create their first app even without prior programming experience. They take on the role of app developers and, in small groups, select a fictional client brief for which they design the appropriate application. Logical thinking is essential, but creativity in designing the user interface is also required.

*Target group: Years 8 – 13 and Year 7 with a STEM background*

### **DATA SCIENCE – Solving data challenges with the help of AI**

Students are introduced to the important field of data science, which continuously generates new insights in the technological world. They learn how artificial intelligence can be used to extract useful information from large datasets and how to formulate effective prompts. Through playful tasks, they interact with a chatbot that has been pre-trained with relevant data.

*Target group: Years 7 – 8*

### **INNOVATION HUB UPPER AUSTRIA – An interactive insight into the STEM landscape of Upper Austria**

In an interactive presentation, students gain an overview of the various STEM application areas that play an important role in Upper Austria. As a class, they select two areas to explore in more detail, gaining insights into current projects and activities, and experiencing how STEM professionals contribute to shaping future solutions. Through real-world insights and hands-on exhibits, they interactively discover their own opportunities within Upper Austria as a centre of innovation.

*Target group: Years 7 – 13*