

NEW THIS SUMMER
**ROBOTICS
WORKSHOP**



Summer Camps



LA GARENNE
INTERNATIONAL SCHOOL

www.la-garenne.ch/summer-camps



Exciting new workshops in technology this Summer!

Next to our French and English classes in the morning, students aged 8-12 can also choose and enjoy a fun and exciting Robotics Workshop full of hands-on activities!

Our special robotics room, is equipped with the latest 3D-printers, Arduino Boards & Kits and plenty of VEX IQ and V5 Robot kits, giving campers more space and tools to create amazing projects.

Your child will explore VEX IQ robotics, compete in team challenges, learn programming, and complete missions. They will also bring their ideas to life in 3D-design, using Fusion 360 and Tinkercad, and learn how to print their work with our new Bambu Lab 3D-printers.

The VEX IQ Robot kits are specially designed for young engineers. Your child will get to build robots from scratch, mix and match parts, experiment with sensors and motors, and code their robots to complete different tasks. These kits allow them to learn teamwork, problem-solving, and coding skills while making their robots move, lift, and interact with the environment.

For more experienced students, VEX V5 robots are also available, depending on age and experience, offering more advanced robotics and programming challenges.

At the end of the camp, your child will design and build their own DIY Bluetooth speaker, using a custom 3D-printed from case and a circuit board. All campers will receive a certificate of completion to celebrate their hard work.

**Spaces for the Robotics Workshop are limited.
Contact us to secure a place:
summer@la-garenne.ch**



Robotics Workshop - Explore & Innovate

Your child will be working on one of the following subjects, to develop their skills and creativity:

1. Building, 2. Programming, 3. Designing. The workshop is about creativity, exploration and innovation.

A few lesson examples are:

1. Advanced 3D Design & Speaker Customization Case

Objective: Improve your 3D design, and modify a Bluetooth speaker case.

Resources: Tinkercad Projects - Tinkercad Circuits Guide

2. VEX IQ - Add Sensors & Automate

Objective: Use sensors to make a robot react to its surroundings.

Resources: VEXcode IQ /V5 Blocks Help - Sensor Programming Tutorials

3. Coding in Python

Objective: Apply your new Python knowledge to build a simple interactive game.

Resources: Game Development 1, and use Python basics (input/output, variables, and loops) with the goal to complete a functioning game and be ready to demo or explain how it works.





Two Sessions of Innovation

Learning by Creating

Every session brings a new challenge as campers build, code, test and improve their own creations. Through teamwork and hands-on activities, they develop confidence, creativity and problem-solving skills while discovering how technology can turn ideas into reality.

From Ideas to Reality

Using VEX IQ Robotics, Python programming and 3D design software, students create exciting projects before bringing them to life with professional 3D printers. Every achievement is another step towards becoming tomorrow's innovators.

A Project to Take Home

The workshop concludes with each student assembling and personalising their own Bluetooth speaker using a custom-designed 3D printed case. Together with their certificate of completion, it is a lasting reminder of an unforgettable two sessions of learning, creativity and innovation.

