Erziehungsdepartement des Kantons Basel-Stadt

Hochschulen

▷ Pädagogisches Zentrum PZ.BS

▶ **Unterricht/Weiterbildung**

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Workshop in English for pupils in 3rd to 6th form at Primarschule Basel

Music Machine Lab

Moderator: TechLabs

Language English or bilingual

Activities, Methods

Experience music in a different way! Explore conductive properties of materials and make your own instruments using electronics and even code!
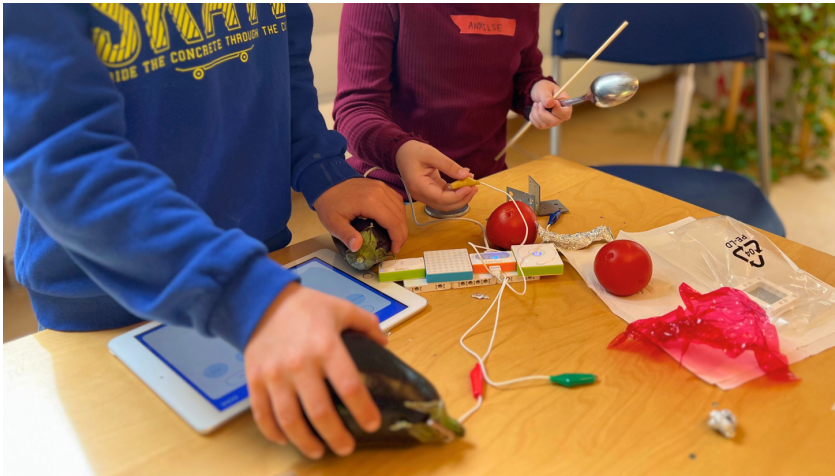
Learning objectives:
- Construction of a simple electrical circuit and understanding that current only flows when the circuit is closed.
- Introduction to programming: A robot is programmed to produce sounds when it detects conductive materials.
- Age-appropriate programming possible – e.g., with simple block programming or symbol-based programming without any reading.
- It is also possible to carry out the process without programming.
- Testing and classifying different materials with regard to their conductivity.
- Build a unique musical robot instrument using conductive objects – even fruit!

Curriculum 21 Competencies:
- NMG 3.3.1c, 2d (Stoffe und Stoffeigenschaften) & NMG 5.2.1, 5.5.2.1c & e (Elektrische Phänomene und technische Anwendungen)
- COMPUTER SCIENCE MI.2.2.2 (Algorithmen)
- ENGLISH FS2E.6.C.1.3 (Kulturen im Fokus – Handlungen)

TechLabs Workshops can be tailored to your class's level, learning goals, and LP21 competencies. Contact us to create a workshop that fits your needs.

Photographer: TechLabs

Materials and Resources

Makeblock Neuron kits
iPads
Conductive and non-conductive materials

Preparation required in advance

Wifi access

Location:

Your school or TechLabs, ELYS, 215 Elsässerstrasse, 4056 Basel

Duration:

2 hours

Number of Participants (min./max.):
Minimum 10, maximum 40 students

Possible Dates (weekdays, times):

Mo.-Fr. 8:30-12:00

Cost:
Fr.16 / Child for a 2 hour workshop
+ Fr.9 / Child / hour for > 2 hours
+ Fr.100 Transport fee to host
event at your school

Contact:
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